

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqui
 Henderson, Robert A.
 Kalos, Michael D.
 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
 Hepler, William

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C16

<140> US/09/605,783

<141> 2000-06-27

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actcctcaaa	gnggtatta	cggttatccn	naaatcnggg	gatacccngg	aaaaaanttt	780
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ctaaagtctg	atgaacttcc	caatcagatg	agcatggatg	attggccaga	aatgaagaag	180
aagtttgtag	atgtatttgc	aaagaagacg	aaggcagagt	ggtgtcaaat	ctttgacggc	240
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tcgctcattg	atcctngcnc	ccgggtcttcg	gctgcggnga	acggttcact	cctcaaaggc	780
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tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaaag      180
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acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct      360
gnnggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagt      420
ctanagcggc cgccaccgcg gtgganctcc ancttttgtt cccttttagtg agggttaatt      480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca      540
attccacaca acatacganc cggaaacata aantgtaaac ctgggggtgcc taatgantga      600
ctaactcaca ttaattgcgt tgcgctcact gcccgcttcc caatcnggaa acctgtcttg      660
ccncttgcat tnatgaatcn gccaaacccc ggggaaaagc gtttgcgttt tgggcgctct      720
tccgcttctc cntcanta ntcctncnc tcggtcattc cggtcgngc aaaccggttc      780
accnctcca aagggggtat tccggtttcc ccnaatccgg gganancc      828

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attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taatttatac      180
tgaagtaaat ctagccatgc ttttaaaaaa tgcttttagt cactccaagc ttggcagtta      240
acatttgga taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg      300
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tgnatnacag ttttccanag ttncaaccta ctggaacatt acagtgtgct tgattcaaaa      780
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<210> 6

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 <212> DNA
 <213> Homo sapien

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tgtaaagtga	aatattagtt	ggcggatgaa	gcagatagtg	aggaaagttg	agccaataat	180
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aatggtgaag	ggagactcga	agtactctga	ggcttgtagg	agggtaaaat	agagacccag	300
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<213> Homo sapien

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<211> 801

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<223> n = A,T,C or G

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ccaacagggg	ctgccccacn	cnennaacga	tgancnatt	gnacaagatc	tncntggtct	660
tnatnaacnt	gaaccctgcn	tngtggctcc	tgttcaggnc	cnnggcctga	cttctnaann	720
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accatgcagt	gcttcagctt	cattaagacc	atgatgatcc	tcttcaattt	gctcatcttt	180
ctgtgtggtg	cagccctggt	ggcagtgggc	atctgggtgt	caatcgatgg	ggcatccttt	240
ctgaagatct	tcggggcact	gtcgtccagt	gccatgcagt	ttgtcaacgt	gggtactttc	300
ctcatcgag	cggcgcttgt	ggtcttagct	ctaggtttcc	tgggctgcta	tggtgctaag	360
actgagagca	agtgtgccct	cgtgacgttc	ttcttcatcc	tcctcctcat	cttcattgct	420
gaggttgcaa	tgctgtggtc	gccttggtgt	acaccacaat	ggctgagcac	ttcctgacgt	480
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gaagantcac	ctacttcaaa	gaaaanagtg	cctttccccc	atttctgttg	caattgacaa	660
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ccactcgtgt atttttcaca ggcagcctcg tccgacgcgt cggggcagtt ggggggtgtct 240
tcacactcca ggaaactgtc natgcagcag ccattgctgc agcggaactg ggtgggctga 300
cangtgccag agcacactgg atggcgccct tccatgnnan gggccctgng ggaaagtccc 360
tganccccc anctgcctct caaangcccc accttgcaac ccccgacagg ctagaatgga 420
atcttcttcc cgaaaggtag ttnttcttgt tgcccaancc anccccntaa acaaactctt 480
gcanatctgc tccngggggg tcntantacc ancgtaggaa aagaacccca ggcnegcaac 540
caancttggt tggatnccaa gcnataatct nctnttctgc ttggtggaca gcaccantna 600
ctgtnnanct ttagncntg gtcctcntgg gttgnncttg aacctaatcn ccnntcaact 660
gggacaagggt aantngccnt ccttttaatt cccnancntn ccccttggtt tgggggtttt 720
cncnctccta ccccgaaaa nccgtgttcc cccccaacta ggggcnnaaa ccnnttnttc 780
cacaaccctn cccacccac gggttcngnt gggtng 816

```

```

<210> 15
<211> 783
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

```

```

<400> 15
ccaaggcctg ggcaggcata nacttgaagg tacaacccca ggaaccctg gtgctgaagg 60
atgtggaaaa cacagattgg cgcctactgc ggggtgacac ggatgtcagg gtagagagga 120
aagacccaaa ccagggtgaa ctgtggggac tcaaggaang cacctacctg ttccagctga 180
cagtgactag ctgagaccac ccagaggaca cggccaacgt cacagtcact gtgctgtcca 240
ccaagcagac agaagactac tgctcgcat ccaacaangt gggtcgctgc cggggctctt 300
tcccacgctg gtactatgac cccacggagc agatctgcaa gagtttcgtt tatggaggct 360
gcttgggcaa caagaacaac taccttcggg aagaagagtg cattctancc tgtcnggggtg 420
tgcaagggtg gcctttgana ngcanctctg gggctcangc gactttcccc cagggccctt 480
ccatggaaa ggcgcatcca ntgttctctg gcacctgtca gccacccag ttccgctgca 540
ncaatggctg ctgcatcnac antttcctng aattgtgaca acaccccca ntgccccaa 600
ccctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacncccg 660
cncctcctt ttccccntn aacaaagggc nctngcnttt gaactgcccn aaccnnggaa 720
tctnccnngg aaaaantncc ccccttggtt cctnnaancc cctccncaa anctncccc 780
ccc 783

```

```

<210> 16
<211> 801
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

```

```

<400> 16
gccccaatc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaa 60
agctgattga agcaaccctc tactttttgg tcgtgagcct tttgcttggg gcaggtttca 120
ttggctgtgt tggtagcgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180

```

```

aagtaggggtg agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc 240
atggtgggtgt tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca 300
ggcactacca gcaacgtcag gaagtgtctc gccattgtgg tgtacaccaaa ggcgaccaca 360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca 420
cacttgctct ccgtcttagc accatagcag cccangaaac caagagcaaa gaccacaacg 480
ccngctgcga atgaaagaaa ntacccacgt tgacaaactg catggccact ggacgacagt 540
tggcccgaan atcttcagaa aagggatgcc ccatcgattg aacacccana tgcccactgc 600
cnacagggct gcncncncn gaaagaatga gccattgaag aaggatcntc ntggtcttaa 660
tgaactgaaa cnttgcattg tggcccctgt tcagggctct tggcagtga tttctganaaa 720
aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgcc ctgaattggc 780
ggccaaggan ccctgccccn g 801

```

```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 17
gtgagagcca ggcgtccctc tgctgcccc ctcagtggca acaccggga gctgttttgt 60
cctttgtgga gcctcagcag ttccctcttt cagaactcac tgccaagagc cctgaacagg 120
agccaccatg cagtgtctca gcttcattaa gaccatgatg atcctcttca atttgctcat 180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc 240
ctttctgaag atcttcgggc cactgtcgtc cagtgccatg cagtttgta acgtgggcta 300
cttcctcatc gcagccggcg ttgtgggtctt tgcctcttgg ttccctgggt gctatgggtg 360
taagacggag agcaagtgtg ccctcgtgac gttcttcttc atcctcctcc tcatcttcat 420
tgctgaagtt gcagctgctg ttgtgcctt ggtgtacacc acaatggctg aaccattcct 480
gacgttgctg gtantgcctg ccatcaanaa agattatggg ttcccaggaa aaattcactc 540
aantntggaa agcncncatg aaaagggtc caatttctgn ttgcttcccc aactataccg 600
gaattttgaa agantcncct tacttccaaa aaaaaanant tgcttttnc cccnttctgt 660
tgcaatgaaa acntcccaan acngccaatn aaaacctgcc cnnncaaaaa ggntcncaaa 720
caaaaaaant nnaagggttn 740

```

```

<210> 18
<211> 802
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

```

```

<400> 18
ccgctgggtg cgctgggtcca gngnagccac gaagcacgtc agcatacaca gcctcaatca 60
caaggtcttc cagctgccgc acattacgca gggcaagagc ctccagcaac actgcatatg 120
ggatacactt tacttttagca gccaggggtga caactgagag gtgtcgaagc ttattcttct 180
gagcctctgt tagtggagga agattccggg cttcagctaa gtagtcagcg tatgtcccat 240
aagcaaacac tgtgagcagc cggaaggtag aggcaaagtc actctcagcc agctctctaa 300
cattggggcat gtccagcagt tctccaaaca cgtagacacc agnggcctcc agcacctgat 360

```

```

ggatgagtgt ggccagcgct gcccccttgg ccgacttggc taggagcaga aattgctcct 420
ggttctgccc tgtcaccttc acttccgcac tcatactgc actgagtgtg ggggacttgg 480
gctcaggatg tccagagacg tggttccgcc ccctcnctta atgacaccgn ccanncaacc 540
gtcggctccc gccgantgng ttcgtcgtnc ctgggtcagg gtctgctggc cncacttgc 600
aancttgcgc nggccatgg aattcacnc accggaactn gtangatcca ctntttctat 660
aaccggncgc caccgcnntt ggaactccac tctnttnc tttacttgag ggtaaggtc 720
acccttnncc ttaccttggc ccaaaccntn cntgtgtcg anatngtnaa tcnggncna 780
tnccanccnc atangaagcc ng 802

```

```

<210> 19
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 19
cnaagcttcc aggtnacggg ccgnaancc tgacccnagg tancanaang cagnncgagg 60
gagccaccgc tcacngngng gngtctttat nggagggggc ggagccacat cnetggacnt 120
cntgacccca actcccncc nncantgca gtgatgagt cagaactgaa ggtnacgtgg 180
caggaaccaa gancaaannc tgctccntc caagtcggcn nagggggcgg ggctggccac 240
gencatccnt cnagtgtgn aaagcccn cctgtctact tgtttgaga acngcnnga 300
catgccagn gttanataac nggngagag tnantttgcc tctcccttc ggctgcgan 360
cgngtntgct tagnggacat aacctgacta cttaactgaa ccnngaate tncnccct 420
ccactaagct cagaacaaaa aacttcgaca ccactcantt gtcacctgnc tgetcaagta 480
aagtgtacc catncccaat gtntgctnga ngctctgncc tgcnttangt tcggctctgg 540
gaagacctat caattnaagc tatgtttctg actgectctt gctccctgna acaancnacc 600
cnnenntcca agggggggnc ggcccccaat ccccccaacc ntnaattnan tttancccn 660
ccccnggcc cggcctttta cnancntenn nnaengggna aaaccnnngc tttncccaac 720
nnaatccnc t 731

```

```

<210> 20
<211> 754
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

```

```

<400> 20
tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc 60
caaccccttc ntccaaatnn cntttccgg gnggggggtc caaacccaan ttanntttgg 120
annttaaatt aaatnttntt tggnggnna anccnaatgt nangaaagt naaccanta 180
tnacttnaa tncctggaaa ccngtngntt caaaaaatnt ttaaccctta antccctcg 240
aaatngttna nggaaaaccc aanttctnt aaggttgttt gaaggntnaa tnaaaanccc 300
nnccaattgt ttttngccac gcctgaatta attggnnttc gntgttttcc nttaaaanaa 360
ggnnancccc gggtantnaa tcccccnnc cccaattata ccgantttt ttngaattgg 420
ganccnccgg gaattaacgg ggnnntcccc tnttgggggg cnggnncccc cccntcggg 480
ggttngggnc aggnennaat tgtttaaggg tccgaaaaat ccctccnaga aaaaaanctc 540

```

ccaggntgag	nntnggggttt	necccccccc	cangggccct	ctcgnaag	tggggtttgg	600
ggggcctggg	atTTTTttt	ccctnttnc	cccccccc	ccngganag	aggttngngt	660
tttgntcnc	ggccccncn	aagantttt	ccganttn	ttaaatcct	gcctnggcga	720
agtccttgn	agggntaaan	ggccccctn	cggg			754

<210> 21
 <211> 755
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(755)
 <223> n = A,T,C or G

<400> 21						
atcancat	gacccnaac	nngggaccnc	tcancggnc	nnncnaccnc	cgccnatca	60
nngtnagnnc	actncnttn	natcacnccc	cncnactac	gcccncnanc	cnacgcnc	120
nncanatnc	actganngcg	cgangtngan	ngagaaanct	nataccanag	ncaccanacn	180
ccagctgtcc	nanaangcct	nnnatacngg	nnnatccaat	ntgnancctc	cnaagtattn	240
nncnncan	gattttcctn	anccgattac	ccntncccc	tancctctcc	cccccaacna	300
cgaaggcnc	ggncnaagg	nngcgncc	ccgctagntc	cccncaagt	cncncncta	360
aactcancn	nattacncgc	ttctgagta	tcactcccc	aatctcacc	tactcaactc	420
aaaaan	gatacaaat	aatncaagcc	tgnttatnac	actntgactg	ggtctctatt	480
ttagnggtcc	ntnaancntc	ctaatacttc	cagctcncct	tcnccaattt	ccnaanggct	540
ctttcngaca	gcatnttttg	gttcccnntt	gggttcttan	ngaattgccc	ttcntngaac	600
gggctcnc	tttctctcg	ttancctgg	ttcnccggc	cagttattat	ttccntttt	660
aaattcnc	cntttanttt	tggcnttcna	aacccccggc	cttgaaaacg	gccccctggt	720
aaaaggttgt	tttganaaaa	tttttgtttt	gttcc			755

<210> 22
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)
 <223> n = A,T,C or G

<400> 22						
ttttttttt	tttttangtg	tngtcgtgca	ggtagaggct	tactacaant	gtgaanacgt	60
acgctnggan	taangcgacc	cgantttctag	gannccct	aaaatcanac	tgtgaagatn	120
atcctgnna	cggaanggtc	accggnggat	nntgctagg	tgncnctcc	cannncnttn	180
cataactcng	nggcctgcc	caccaccttc	ggggcccg	ngnccgggce	cgggtcattn	240
gnnttaacn	cactnngcna	ncggtttccn	neccnncng	accnnggcga	tccggggtnc	300
tctgtcttc	cctgnagncn	anaaantggg	ccnccgnc	ctttaccct	nnacaagcca	360
cngcctceta	necnngccc	cccctccant	nnggggact	gcnnanngt	ccgttncng	420
nnacccnnn	gggtncctcg	gttgctegant	cnaccgnang	ccanggattc	cnaaggaagg	480
tgcgttnttg	gcccctacc	ttcgtcncg	nnacccttc	ccgacnanga	nccgtcccg	540
cncnccngng	cctcncctcg	caacacccgc	netctcngt	ncggnncc	ccccaccgc	600
neccctcnc	ngnccnanc	ctccnccnc	gtctcannca	ccaccccgcc	ccgccaggcc	660
ntcancacn	ggngacnng	nagcncntc	gncgcgcgn	gcgnccct	cgcncngaa	720
ctnctcngg	ccantnccgc	tcaancnna	cnaaacgcc	ctgcgcggcc	cgnagcgncc	780

```

ncctccnega gtcctccogn ctccnacc angnnttccn cgaggacacn nnaccccgcc 840
nncangcgg 849

```

```

<210> 23
<211> 872
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = A,T,C or G

```

```

<400> 23
gcgcaaaacta tacttcgctc gnactcgtgc gcctcgctnc tcttttctct cgcaaccatg 60
tctgacnanc ccgattnggc ngatatchan aagntcganc agtccaaact gantaacaca 120
cacacnchan aganaaatcc nctgccttcc anagtanacn attgaacnng agaaccangc 180
nggcgaatcg taatnaggcg tgcgccgcca atntgtcncc gtttatntn ccagcntcnc 240
ctnccnacc taentcttcn nagctgtcnn acccctngtn cgnaccccc naggtcggga 300
tcgggtttnn nntgaccgng cnnccctcc cccctccat nacganccnc ccgcaccacc 360
nanngcncgc nccccgnnet ctctgcnc ccctgtntn cccctgtngc ctggcncngn 420
accgcattga ccctgcncn ctncnngaaa ncgnanacgt ccgggttggn annancgctg 480
tggnnnngcg tctgcncgc gttccttcn ncnncttcca ccatcttct tacngggctc 540
ccnccgctc tcnncacnc cctgggacgc tntcctntgc ccccttnac tccccctt 600
cgcgcgtgnc cgnccccacc ntcatttnca nacgntcttc acaannncc ggntnnctcc 660
cnancngncn gtcancnag ggaagggng ggncnntg nttgacgttg ngngangtc 720
cgaanantcc tcnccntcan cncctaccct cgggcgnnet ctngttnc aactancaa 780
ntctcccccg ngngcnctc tcagcctcnc cnccccnct ctctgcantg tntctgctc 840
tnaccnntac gantnttcgn cncctctt cc 872

```

```

<210> 24
<211> 815
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

```

```

<400> 24
gcatgcaagc ttgagtattc tatagngtca cctaaatanc ttggcntaat catggtcnta 60
nctgncttcc tgtgtcaaat gtatacnaa tanatatgaa tctnatntga caaganngta 120
tcntncatta gtaacaantg tnntgtccat cctgtcngan canattccca tnnattncgn 180
cgcattcnch gencantatn taatngggaa ntcnnntnnn ncaccnncat ctatcntncc 240
gcncctgac tggagagat ggatnanttc tnntntgacc nacatgttca tcttggaatn 300
aanaccccc cgcngnccac cggttngnng cnagcnnct ccaagacct ctgtggagg 360
aacctgcgtc aganncatca aacntgggaa acccgcnncc angtnnaagt ngnnncanan 420
gatcccgctc aggnntnacc atcccttnc agcgccttcc ttngtgcctt anagnnagc 480
gtgtccnanc cnetcaacat ganacgcgcc agnccanccg caattnggca caatgtcnc 540
gaaccccccta gggggantna tncaaanccc caggattgtc cncncangaa atccncanc 600
ccnccctac cennctttgg gacngtgacc aantcccgga gtncagtc gccngnctc 660
ccccaccggt nncntgggg ggggtgaant cngnntcanc cngncgaggn ntcgnaagga 720
accggnccn gngcgaanng ancnntcnga agngcncnt cgtataacc cccctcncca 780

```


ncenacngnt agntcccccc cngggtnccg aangg

815

<210> 25
 <211> 775
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(775)
 <223> n = A,T,C or G

<400> 25
 ccgagatgtc tcgctccgtg gccttagctg tgctcgcgct actctctctt tctggcctgg 60
 aggctatcca gcgtactcca aagattcagg ttctactcac tcatccagca gagaatggaa 120
 agtcaaattt cctgaattgc tatgtgtctg ggtttcatcc atccgacatt gaanttgcact 180
 tactgaagaa tgganagaga attgaaaaag tggagcattc agacttgtct ttcagcaagg 240
 actggtcttt ctatctcntg tactacactg aattcacccc cactgaaaaa gatgagtatg 300
 cctgccgtgt gaaccatgtg actttgtcac agcccaagat agttaagtgg gatcgagaca 360
 tgtaagcagn cnnatggaa gtttgaagat gcgcgatttg gattggatga attccaaatt 420
 ctgcttgctt gcnttttaat antgatatgc ntataacccc taccctttat gnceccaaat 480
 tgtaggggtt acatnantgt tcnentngga catgatcttc ctttataant ccncenttcg 540
 aattgccgt cncncngttn ngaatgtttc cnaaaccacg gttggctccc ccaggtcncc 600
 tottacggaa gggcctgggc cnccttncaa gggtggggga accnaaaatt tcncttntgc 660
 cncncncca cncctctgng nncncanttt ggaacccttc cnattcccct tggcctenna 720
 nccttnncta anaaaacttn aaancgtngc naaanntttn acttcccccc ttacc 775

<210> 26
 <211> 820
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(820)
 <223> n = A,T,C or G

<400> 26
 anattantac agtgtaatct tttcccagag gtgtgtanag ggaacggggc ctagaggcat 60
 cccanagata ncttatanca acagtgtttt gaccaagagc tgctgggcac atttcttgca 120
 gaaaagggtg cgggtcccat cactcctcct ctcccatagc catcccagag gggtagtag 180
 ccatcangcc ttcggtggga gggagtcang gaaacaacan accacagagc anacagacca 240
 ntgatgacca tgggcgggag cgagcctctt coctgnaccg gggtaggana nganagccta 300
 notgaggggt cacactataa acgttaacga ccnagatnan cacctgcttc aagtgcaccc 360
 ttctacctg acnaccagng accnnnaact gcngcctggg gacagcnctg ggancagcta 420
 acnnagcact cacctgcccc cccatggcgg tncgntccc tggctcctgnc aagggaagct 480
 ccctgttgga attncgggga naccaaggga nccccctcct ccancgtgta aggaaaaann 540
 gatggaattt tnccttcccg gccntcccc tcttcttta cagccccct nntactctc 600
 tccctctntt ntccctgnc ctttttnacc ccnnnatttc ccttnattga tggannctn 660
 ganattccac tnnccctnc cntcnateng naanacnaaa nactntctna cccnggggat 720
 gggnnccctg ntcatcctct ctttttncct accnccnntt ctttgccctt ccttngatca 780
 tccaaccntc gntggccntn ccccccnnn tcccttnccc 820

<210> 27

<211> 818
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 27

tctgggtgat	ggcctcttcc	tcctcagga	cctctgactg	ctctgggcca	aagaatctct	60
tgtttcttct	ccgagcccca	ggcagcggg	attcagccct	gccaacctg	attctgatga	120
ctgcggatgc	tgtgacggac	ccaaggggca	aataggggtcc	caggggtccag	ggagggggcgc	180
ctgctgagca	cttccgcccc	tcacctgccc	cagccccctgc	catgagctct	gggctgggtc	240
tccgcctcca	gggttctgct	cttccangca	ngccancaag	tggcgctggg	ccacactggc	300
ttcttcctgc	cccntccctg	gctctgante	tctgtcttcc	tgctctgtgc	angcnccttg	360
gatctcagtt	tcctcncctc	anngaactct	gtttctgann	tcttcantta	actntgantt	420
tatnaccnan	tggncctgtnc	tgtcnnactt	taatgggccc	gaccggctaa	tcctccctc	480
ntcccttcc	anttcnnna	acnngcttnc	cntctctcc	ccntanccc	ccnggggaanc	540
ctcctttgcc	ctnaccangg	gcennnaccg	cccntnnctn	ggggggcng	gtnnctncnc	600
ctgntnnccc	cncctcncnt	tncctcgtec	cnnncncgc	nngcannttc	ncngtcccn	660
tnnctcttcn	ngntcgnaa	ngntcncntn	tnnnngncn	ngntnntncn	tcctctcnc	720
cnnntgnang	tnnttnnnnc	ncngnncccc	nnnnnnnnnn	nggnntnnnn	tctncncngc	780
cccncccc	ngnattaagg	cctccnntct	ccggccnc			818

<210> 28
 <211> 731
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(731)
 <223> n = A,T,C or G

<400> 28

aggaagggcg	gagggatatt	gtangggatt	gagggatagg	agnataangg	gggaggtgtg	60
tcccaacatg	anggtgnngt	tctcttttga	angaggggtg	ngtttttann	ccnggtgggt	120
gattnaaccc	cattgtatgg	agnnaaaggn	tttnagggat	ttttcggtc	ttatcagtat	180
ntanattcct	gtnaatcgga	aaatnatntt	tcnnncggaa	aatnttgctc	ccatccgnaa	240
attnctccc	ggtagtgc	nttngggggn	cngccangtt	tcccaggctg	ctanaatcgt	300
actaaagntt	naagtgggan	tncaaataaa	aacctnnac	agagnatccn	tacctgactg	360
tnnnttncct	tcgcccctng	actctgcng	agcccaatac	ccnngngnat	gtcncccngn	420
nnngcgnnc	tgaaannnnc	tcgnggctnn	gancatcang	gggtttcgca	tcaaaagcnn	480
cgtttcncat	naaggcactt	tngcctcate	caacncctng	ccctcnncca	tttngccgtc	540
nggttncct	acgctnnntg	cncctnnntn	ganattttnc	ccgcctnggg	naancctcct	600
gnaatgggta	gggnccttntc	ttttnacccn	gnggtntact	aatcnnctnc	acgctnctt	660
tctcnacccc	cccccttttt	caatcccanc	ggcnaatggg	gtctccccnn	cgangggggg	720
nnnccannnc	c					731

<210> 29
 <211> 822
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(822)
 <223> n = A,T,C or G

<400> 29
 actagtccag tgtgggtggaa ttccattgtg ttggggncnc ttctatgant antnttagat 60
 cgctcanacc tcacancctc ccnacnangc ctataangaa nannaataga nctgtncnnt 120
 atntntacnc tcatanncct cnnnaccac tccctcttaa cccntactgt gcctatngcn 180
 tnnctantct ntgccgcctn cnanccaccn gtgggcnac cncnngnatt ctcnatctcc 240
 tcnccatntn gcctananta ngtncatacc ctatacctac nccaatgcta nnnctaancn 300
 tccatnantt annntaacta ccactgaent ngactttcnc atnancctct aatttgaaac 360
 tactctgact cccacngcct annnattagc ancntcccc nacnatntct caaccaaacc 420
 ntcaacaacc tatctantctg ttcnccaacc nttncctccg atccccnnac aacccccctc 480
 ccaaataccc nccaactgac ncctaaccn caccatcccg gcaagccnan ggnccatttan 540
 ccactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana 600
 aatnctcctn naatttactn ncantnccat caancccaen tgaaacnnaa cccctgtttt 660
 tanatccctt ctttgcgaaa ccnacccttt annncccaac ctttngggcc ccccnctnc 720
 ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaggcna anannntccg 780
 canatcctat cccttanttn ggggnccctt ncccnngggcc cc 822

<210> 30
 <211> 787
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(787)
 <223> n = A,T,C or G

<400> 30
 cggccgcctg ctctggcaca tgccctcctga atggcatcaa aagtgatgga ctgcccattg 60
 ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctcccctt 120
 gtctgcagga tttgatgtct gaagtcgtgg agtgtggcct ggagctcctc atctacatna 180
 gctggaagcc ctggaggggc tctctcgcca gcctccccct tctctccacg ctctccangg 240
 acaccagggg ctccaggcag cccattattc ccagnangac atgggtgttc tccacgcgga 300
 cccatggggc ctgnaaggcc agggctctct ttgacaccat ctctcccgtc ctgcctggca 360
 ggccgtggga tccactantt ctanaacggg cgccaccncg gtgggagctc cagcttttgt 420
 tcccnttaat gaaggttaat tgcnegcttg gcgtaatcat nggtcanaac tntttcctgt 480
 gtgaaattgt ttntccccctc ncnatccnc ncnacatacn aacccggaan cataaagtgt 540
 taaagcctgg gggtngcctn nngaanaaac tnaactcaat taattgcgtt ggctcatggc 600
 ccgctttccn ttcnngaaaa ctgtcntccc ctgcnttntt gaatcggcca cccccnggg 660
 aaaagcggtt tgcnttttng ggggntcctt ccncttcccc cctcnctaan cctnccgct 720
 cggctgttnc nggtngcggg gaangggnat nnnctcccnc naagggggng agnnngntat 780
 ccccaaa 787

<210> 31
 <211> 799
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(799)
 <223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	tttaattgca	ggaggtgggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggaggagg	ggcagagcgc	cctgctgagc	120
aacaaaggac	tctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgcaggg	gggggccacc	agtccaggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggctggt	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gcccacctct	ccentcnaan	aagtaattca	ccccccccc	ccntctnttg	480
cctgggacct	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnateccn	cctgaangcg	ccaagttgaa	aggccacgcc	gtnccectc	cccatagnan	600
nttttntnt	canctaata	ccccccnggc	aacnatccaa	ttccccccc	tgggggcccc	660
agcccgagc	ccccgntctg	ggnnnccngn	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcnc	cccgcacgca	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnncnac	780
ctcgcccccc	ccnncgngg					799

<210> 32
 <211> 789
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(789)
 <223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttccnag	ggcaggttta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcggcg	gcggcggcgg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgctcccgc	tgatnttct	ctgcagctgc	aggatgccnt	aaaacagggc	ctcgccntn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcancc	cctcaccacc	300
nattaggaat	agtggnttta	ccnccnccg	ttggcncact	ccccntggaa	accacttntc	360
gcggtccgg	catctggtct	taaaccttgc	aaacnctggg	gccctctttt	tggttantnt	420
ncnngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttnnccgggt	tgetgcnatn	tncatcacct	cccgggcnca	ncaggncaac	540
ccaaaagttc	ttngggcccn	caaaaaanct	ccggggggnc	ccagtttcaa	caaagtcac	600
ccccttggcc	cccaaactct	ccccccgntt	nctgggtttg	ggaacccacg	cctctnnctt	660
tggnnggcaa	gntggntccc	ccttcggggc	cccggtgggc	ccnnctctaa	ngaaaacncc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	ttcccttttt	tanaaacggg	780
ccccccnccg						799

<210> 33
 <211> 793
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(793)

<223> n = A,T,C or G

<400> 33

gacagaacat	ggttgatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggtggagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtattt	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctgtt	aaacaccccca	gccatccctt	ctttcaaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atgggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaatttt	aaagcctggn	ggtngcctaa	tgantgaact	600
nactcacatt	aattggcttt	gcgctcactg	cccgttttcc	agtcgggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcncctccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgcggcna	780
acggtatcna	cct					793

<210> 34

<211> 756

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(756)

<223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtgga	accgtaaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccgtga	catactggag	180
atcgggggcc	aatggagcat	cctacgcaan	gacatccoct	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttcctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaaa	gtnttctctg	ccnagggtaa	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgcn	ggttgctcca	gaaaggctnc	aanaanatcc	ttttcnctga	aggccccggg	600
atnncctagt	nctagaatcg	gccccccatc	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	tttattgccg	cccttggcgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	cccccaaat	tcacgcna	catnng			756

<210> 35

<211> 834

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(834)

<223> n = A,T,C or G

<400> 35

```

ggggatctct anatchacct gnatgcatgg ttgtcggtgt ggctcgctgtc gatgaanatg      60
aacaggatct tgcctttgaa gctctcggct gctgtnttta agttgctcag tctgccgtca      120
tagtcagaca cncctcttggg caaaaaacan caggatntga gtcttgattt cacctccaat      180
aatcttcngg gctgtctgct cgggtgaactc gatgacnang ggcagctggg tgtgtntgat      240
aaantccanc angttctcct tgggtgacctc cccttcaaag ttgttccggc cttcatcaaa      300
cttctnnaan angannancc canctttgtc gagctggnat ttgganaaca cgtcactggt      360
ggaaactgat cccaaatggg atgtcatcca tcgctctgc tgcctgcaaa aaacttgctt      420
ggcncaaadc cgactcccn tccttgaaag aagccnatca cccccccctc cctggactcc      480
nncaangact ctnccgctnc cccntccnng cagggttggg ggcannccgg gcccntgcgc      540
ttcttcagcc agttcacnat ntcatcagc ccctctgcca gctgtntat tccttggggg      600
ggaanccgtc tctcccttcc tgaannaact ttgaccgtng gaatagccgc gcntcncnt      660
acntnctggg cggggttcaa antccctcnc ttgncnntcn cctcgggcca ttctggattt      720
nccnaacttt ttccttcccc cccccnccg ngtttggntt tttcatnggg ccccaactct      780
gctnttggcc antccctgg gggcntntan cccccctnt ggtcccntng ggcc      834

```

```

<210> 36
<211> 814
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(814)
<223> n = A,T,C or G

```

```

<400> 36
cggnccgttt ccngccgcgc cccgtttcca tgacnaaggc tcccttcang ttaaatacnn      60
cctagnaaac attaatgggt tgctctacta atacatcata cnaaccagta agcctgcccc      120
naacgccaac tcaggccatt cctaccaaag gaagaaaggc tgggtctctcc accccctgta      180
ggaaaggcct gccttgtaag acaccacaat ncggctgaat ctnaagtctt gtgttttact      240
aatggaaaaa aaaaataaac aanaggtttt gttctcatgg ctgcccaccg cagcctggca      300
ctaaaacanc ccagcgctca cttctgcttg ganaaatatt ctttgccttt ttggacatca      360
ggcttgatgg tatcactgcc acntttccac ccagctgggc ncccttcccc catntttgtc      420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngcccacaag accggccacc      480
agggggangtc ntttncagtg gatctgcccc anantaccn tatcatcnnt gaataaaaag      540
gccccgaac ganatgcttc cancanctt taagaccat aatcctngaa ccatggtgcc      600
cttccggctc gatccnaaag gaatgttctt ggggtccant cctcctttg ttncctacgt      660
tgtnttggac cntgctngn atnaccnaan tganatcccc ngaagcacc tncctctggc      720
atttganttt cntaaattct ctgccctacn nctgaaagca cnattccctn ggcnccnaan      780
ggngaactca agaaggtctn ngaaaaacca cncn      814

```

```

<210> 37
<211> 760
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(760)
<223> n = A,T,C or G

```

```

<400> 37
gcatgctgct ctctctcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg      60
gcgcagtggt cgctgaaggg gttgtagtac cagcgcggga tgctctcctt gcagagtctt      120

```

```

gtgtctggca ggtccaacga atgccctttg tcaactgggga aatggatgcg ctggagctcg 180
tcnaanccac tcgtgtatatt ttacacangca gcctcctccg aagcntccgg gcagttgggg 240
gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt 300
gggctgacag gtgccagaac aactgggatn ggccctttcca tggaggggcc tgggggaaat 360
cncctnancc caaactgcct ctcaaaggcc accttgacac ccccgacagg ctagaaatgc 420
actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aacaaaaanc 480
ttgcaaaatc tgctccgtgg gggtcatnnn taccanggtt ggggaaanaa acccggcngn 540
gancncctt gtttgaatgc naaggnaata atcctcctgt cttgcttggg tggaaanagca 600
caattgaact gttaacnttg ggccngttc cncnnggtg gtctgaaact aatcacctgc 660
actgaaaaaa ggtangtgcc ttccttgaat tcccaaantt cccctngntt tgggtntttt 720
ctcctctncc ctaaaaatcg tnttcccccc cntanggcg 760

```

```

<210> 38
<211> 724
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

```

```

<400> 38
tttttttttt tttttttttt tttttttttt tttttaaaaa cccctcccat tgaatgaaaa 60
cttccnaaat tgtccaaccc cctennccaa atnnccatth ccgggggggg gttccaaacc 120
caaattaatt ttgganttta aattaaatnt tnatnngggg aanaanccaa atgtnaagaa 180
aatttaaccc attatnaact taaatncctn gaaaccntg gnttccaaaa atttttaacc 240
cttaaatccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt 300
ngatttaaac ccccttnant tnttttnacc cnnngctnaa ntatttngnt tccggtgttt 360
tcctnttaan cntnggtaac tcccngtaat gaannnccct aanccaatta aaccgaattt 420
tttttgaatt ggaaattccn ngggaattna ccgggggttt tcccttttgg gggccatncc 480
ccncttttcg gggtttgggn ntaggttgaa tttttnnang nccccaaaaa ncccccaana 540
aaaaaactcc caagnnttaa ttngaattnc ccccttccca ggcccttttg gaaaggnggg 600
ttnttggggg ccngggantt cnttcccccn ttncncccc ccccccnggt aaanggttat 660
ngnttttggg ttttgggccc cttnanggac cttccggatn gaaattaaat ccccggnccg 720
gccg 724

```

```

<210> 39
<211> 751
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

```

```

<400> 39
tttttttttt tttttctttg ctcacattta atttttatth tgattttttt taatgctgca 60
caacacaata tttatttcat ttgtttcttt tatthcattt tatttggttg ctgctgctgt 120
tttattttatt tttactgaaa gtgagaggga acttttgtgg ccttttttcc tttttctgta 180
ggccgcctta agctttctaa atttggaaca tctaagcaag ctgaanggaa aagggggttt 240
cgcaaaatca ctccgggggaa nggaaagggt gctttgttaa tcatgcccta tgggtgggtga 300
ttaactgctt gtacaattac ntttcacttt taattaattg tgctnaangc ttttaattana 360

```

```

cttggggggtt cctcccccac accaaccctc ctgacaaaaa gtgccngccc tcaaatnatg      420
tcccggcnnt cnttgaacaa cacngcngaa ngttctcatt ntcccnncnc caggtnaaaa      480
tgaagggtta ccatntttta cncacacctc acntggcnnn gcctgaatcc tcnaaaannc      540
ccctcaancn aattnctnng ccccggtcnc gentnngtcc cncccggggt ccgggaantn      600
cacccccnga anncnntnnc naacnaaatt ccgaaaatat tcccnntcnc tcaattcccc      660
cnnagactnt cctcnncnan cncaattttc tttntntcac gaacncgnnc cnnaaaatgn      720
nnnnncctc cnetngtcn naatcnccan c                                          751

```

```

<210> 40
<211> 753
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

```

```

<400> 40
gtggtatttt ctgtaagatc aggtgttctt cctctgtagg tttagaggaa acaccctcat      60
agatgaaaac ccccccgaga cagcagcact gcaactgcca agcagccggg gtaggagggg      120
cgccctatgc acagctgggc ccttgagaca gcagggtctc gatgtcaggc tcgatgtcaa      180
tggctctggaa ggcgcggctg tacctgcgta ggggcacacc gtcaggggcc accaggaact      240
tctcaaagtt ccaggcaacn tcgttgcgac acaccggaga ccagggtgatn agcttggggg      300
cggtcataa cgcgggtggc tcgtcgtctg gagctggcag ggcctcccgc aggaaggcna      360
ataaaagggt cgcccccgca cgttctcact cgcacttctc naanaccatg angttggggt      420
cnaaccacc accannccgg acttctctga nggaattccc aaatctcttc gntcttgggc      480
ttctnctgat gccctanctg gttgccnngn atgccaanca nccccaancc ccgggggtct      540
aaanacccn cctcctcntt tcatctgggt tntntcccc ggacctgggt tctctcaag      600
ggaacccata tctcnaccan tactcaacct nccccccnt gnnaccanc cttctannng      660
tcccccccg ncctctggcc cntcaaanan gcttncaacn cctgggtctg cttcccccc      720
tccccctatc gnaccccnnc tttgtctcan tnt                                          753

```

```

<210> 41
<211> 341
<212> DNA
<213> Homo sapien

```

```

<400> 41
actatatcca tcacaacaga catgcttcat cccatagact tcttgacata gcttcaaagt      60
agtgaacca tccttgattt atatacatat atgttctcag tattttggga gcctttccac      120
ttctttaaac cttgttcatt atgaacactg aaaataggaa tttgtgaaga gttaaaaagt      180
tatagcttgt ttacgtagta agtttttgaa gtctacattc aatccagaca cttagttgag      240
tgttaaactg tgatttttaa aaaatatcat ttgagaatat tctttcagag gtattttcat      300
tttactttt tgattaattg tgttttatat attagggtag t                                          341

```

```

<210> 42
<211> 101
<212> DNA
<213> Homo sapien

```

```

<400> 42
acttactgaa tttagttctg tgctcttctt tatttagtgt tgtatcataa atactttgat      60
gtttcaaaca ttctaaataa ataattttca gtggcttcat a                                          101

```


<210> 43
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 43
 acatctttgt tacagtctaa gatgtgttct taaatcacca ttccttcctg gtccctcacc 60
 tccaggggtg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120
 tcagatgcct tgctaagtct agagttctag agttatgttt cagaaagtct aagaaaccca 180
 cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240
 tggatacaga acgagagtta tcctggataa ctcagagctg agtacctgcc cggggggccgc 300
 tcgaa 305

<210> 44
 <211> 852
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(852)
 <223> n = A,T,C or G

<400> 44
 acataaatat cagagaaaag tagtctttga aatatttacg tccaggagtt ctttgtttct 60
 gattattttg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120
 ctctccatcc tcgggcatcc tccccaaatt tatataccag tcttcgtcca tccacacgct 180
 ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240
 tgctgttggt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300
 agacgccctc agatcgggtct tcccatttta ttaatcctgg gttcttgtct gggttcaaga 360
 ggatgtcgcg gatgaattcc cataagtgag tccctctcgg gttgtgcttt ttgggtggc 420
 acttggcagg ggggtcttgc tcccttttca tctcaggtga ctctgcaaca ggaagggtgac 480
 tggtaggtgt catggagatc tgagcccggc agaaagtatt gctgtccaac aaatctactg 540
 tgctaccata gttgggtgtc tataaatagt tctngtcttt ccagggtgtc atgatggaag 600
 gctcagtttg ttcagtcttg acaatgacat tgtgtgtgga ctggaacagg tcactactgc 660
 actggccgtt ccaacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720
 ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctgccggtg atgtcgaact 780
 cntggaaagg gatacaattg gcatccagct ggtaggtgtc caggaggtga tggagccact 840
 cccacacctg gt 852

<210> 45
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 45
 acaacagacc cttgctcgt aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60
 agtctgacac catccggagc atcagcattg cttcgcagtg ccctaccgag gggaactctt 120
 gcctcgtttc tggctggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180
 tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt 234

<210> 46
 <211> 590

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(590)
 <223> n = A,T,C or G

<400> 46

acttttttatt	taaatgttta	taaggcagat	ctatgagaat	gatagaaaac	atgggtgtgta	60
atttgatagc	aatatTTTtg	agattacaga	gttttagtaa	ttaccaatta	cacagttaaa	120
aagaagataa	tatatTccaa	gcanatacaa	aatatccta	gaaagatcaa	ggcaggaaaa	180
tgantataac	taattgacaa	tggaaaatca	attttaatgt	gaattgcaca	ttatccttta	240
aaagctttca	aaanaaanaa	ttattgcagt	ctanttaatt	caaacagtgt	taaatgggat	300
caggataaan	aactgaagg	canaaagaat	taattttcac	ttcatgtaac	ncaccan	360
ttacaatggc	ttaaatgcan	ggaaaaagca	gtggaagtag	ggaagtantc	aaggtctttc	420
tggctctctaa	tctgccttac	tctttgggtg	tggctttgat	cctctggaga	cagctgccag	480
ggctcctgtt	atatccacaa	tcccagcagc	aagatgaagg	gatgaaaaag	gacacatgct	540
gccttccttt	gaggagactt	catctcactg	gccaacactc	agtcacatgt		590

<210> 47
 <211> 774
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(774)
 <223> n = A,T,C or G

<400> 47

acaagggggc	ataatgaagg	agtggggana	gatttttaag	aaggaaaaaa	aacgaggccc	60
tgaacagaat	tttctgnac	aacggggctt	caaaataatt	ttcttgggga	ggttcaagac	120
gcttctactgc	ttgaaactta	aatggatgtg	ggacanaatt	ttctgtaatg	acctgaggg	180
cattacagac	gggactctgg	gaggaaggat	aaacagaaag	gggacaaagg	ctaattccaa	240
aacatcaaag	aaaggaagg	ggcgtcatat	ctcccagcct	acacagttct	ccagggctct	300
cctcatccct	ggaggacgac	agtggaggaa	caactgacca	tgtccccagg	ctcctgtgtg	360
ctggctcctg	gtcttcagcc	cccagctctg	gaagcccacc	ctctgctgat	cctgcgtggc	420
ccacactcct	tgaacacaca	tccccaggtt	atattcctgg	acatggctga	acctcctatt	480
cctacttccg	agatgccttg	ctccctgcag	cctgtcaaaa	tcccactcac	cctccaaacc	540
acggcatggg	aagcctttct	gacttgcctg	attactccag	catcttggaa	caatccctga	600
ttccccactc	cttagaggca	agataggggtg	gttaagagta	gggctggacc	acttgagacc	660
aggctgctgg	cttcaaattn	tggctcattt	acgagctatg	ggaccttggg	caagtnatct	720
tcacttctat	gggcntcatt	ttgttctacc	tgcaaaatgg	gggataataa	tagt	774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120
 tggt 124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49
 gccgatgcta ctattttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt 60
 tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120
 ttagggcacc catatcccaa gcantgt 147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50
 acattaaatt aataaaaagga ctgttgggggt tctgctaaaa cacatggcctt gatataattgc 60
 atgggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 51
 gtcctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg 60
 cggaaggaag aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgcc cacttggcca 180
 cctccctttt gggaccagca atgt 204

<210> 52
 <211> 491
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(491)
 <223> n = A,T,C or G

<400> 52
 acaaagataa catttatctt ataacaaaaa ttgatagtt ttaaagggtta gtattgtgta 60
 gggatatttc caaaagacta aagagataac tcaggtaaaa agttagaaat gtataaaaca 120

```

ccatcagaca ggTTTTTaaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180
aaaacttctt gtatcaattt cttttgttca aaatgactga ctttaantatt tttaaattatt 240
tcanaaacac ttctcaaaa attttcaana tggtagcttt canatgtncc ctcatgccca 300
atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360
atgcaacagt gtcttttctt tnttttttct tttttttttt ttacaggcac agaaactcat 420
caattttatt tggataacaa aggggtctcca aattatattg aaaaataaat ccaagttaat 480
atcactcttg t 491

```

```

<210> 53
<211> 484
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(484)
<223> n = A,T,C or G

```

```

<400> 53
acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60
gtattaacag ttgctgaagt ttggtatttt tatgcagcat tttctttttg ctttgataac 120
actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180
caatcaaate tctacataac actatagtaa ttaaaacgtt aaaaaaaagt gttgaaatct 240
gcactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc 300
agctttgant ttctttgtgc tgatangagg aaaggctgaa ttaccttggt gcctctccct 360
aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncc 420
tancctgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc 480
cant 484

```

```

<210> 54
<211> 151
<212> DNA
<213> Homo sapien

```

```

<400> 54
actaaacctc gtgcttgatg actccataca gaaaacgggtg ccatccctga acacggctgg 60
ccactgggta tactgctgac aaccgcaaca acaaaaacac aaatccttgg cactggctag 120
tctatgtect ctcaagtgcc tttttgtttg t 151

```

```

<210> 55
<211> 91
<212> DNA
<213> Homo sapien

```

```

<400> 55
acctggcttg tctccgggtg gttcccggtg cccccacgg tccccagaac ggacactttc 60
gccctccagt ggatactcga gccaaagtgg t 91

```

```

<210> 56
<211> 133
<212> DNA
<213> Homo sapien

```

```

<400> 56

```

```

ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact      60
tggatttttg gtatctgtgg gttgggggga cggtcagga accaataccc catggatacc      120
aagggacaac tgt                                     133

```

```

<210> 57
<211> 147
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(147)
<223> n = A,T,C or G

```

```

<400> 57
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc      60
gactgggagc tgagcccttc cctttgcgcc tgcctcagag gattgttgcc gacntgcana      120
tctcantggg ctggatncat gcagggt                                     147

```

```

<210> 58
<211> 198
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(198)
<223> n = A,T,C or G

```

```

<400> 58
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc      60
tgattacata catttatect ttaaaaaaga tgtaaactct aatttttatg ccatctatta      120
atttaccaat gagttacctt gtaaatgaga agtcatgata gactgaatt ttaactagtt      180
ttgacttcta agtttggt                                     198

```

```

<210> 59
<211> 330
<212> DNA
<213> Homo sapien

```

```

<400> 59
acaacaaatg ggttgtgagg aagtcttata agcaaaactg gtgatggcta ctgaaaagat      60
ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt      120
cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa      180
tacagtcaat aaatgacaaa gccagggcct acaggtgggt tccagacttt ccagaccag      240
cagaaggaat ctattttatc acatggatct ccgtctgtgc tcaaaatacc taatgatatt      300
tttcgtcttt attggacttc tttgaagagt                                     330

```

```

<210> 60
<211> 175
<212> DNA
<213> Homo sapien

```

```

<400> 60

```

```

accgtgggtg ccttctacat tcttgacggc tccttcacca acatctggtt ctacttcggc      60
gtcgtgggct ccttctcttt catctcctc cagctgggtg tgctcatcga ctttgccgac      120
tcttgaacc agcgggtggct gggcaaggcc gaggagtgcg attcccgtgc ctggt          175

```

```

<210> 61
<211> 154
<212> DNA
<213> Homo sapien

```

```

<400> 61
acccacttt tcttctgtg agcagtctgg acttctcact gctacatgat gagggtgagt      60
ggttggtgct cttcaacagt atctctccct ttccggatct gctgagccgg acagcagtgc      120
tggaactgac agccccgggg ctccacattg ctgt          154

```

```

<210> 62
<211> 30
<212> DNA
<213> Homo sapien

```

```

<400> 62
cgctcgagcc ctatagttag tcgtattaga          30

```

```

<210> 63
<211> 89
<212> DNA
<213> Homo sapien

```

```

<400> 63
acaagtcatt tcagcacctt ttgctcttca aaactgacca tcttttatat ttaatgcttc      60
ctgtatgaat aaaaatggtt atgtcaagt          89

```

```

<210> 64
<211> 97
<212> DNA
<213> Homo sapien

```

```

<400> 64
accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa ggttctgcag      60
aatcagtgca tccaggattg gtccttggt ctgggg          97

```

```

<210> 65
<211> 377
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G

```

```

<400> 65
acaacaanaa ntcccttctt taggccactg atggaaacct ggaaccccct tttgatggca      60
gcatggcgtc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc      120
ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggt      180

```

tccggtcataa	natgaaatcc	caanggggac	agagggtcagt	agaggaagct	caatgagaaa	240
ggtgctgttt	gctcagccag	aaaacagctg	cctggcattc	gccgctgaac	tatgaaccgc	300
tgggggtgaa	ctacccccc	gaggaatcat	gcctgggcga	tgcaanggtg	ccaacaggag	360
gggcgggagg	agcatgt					377

<210> 66
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 66						
acgcctttcc	ctcagaattc	aggggaagaga	ctgtcgccctg	ccttcctccg	ttgttgcgctg	60
agaaccgcgtg	tgcaccttcc	caccatatcc	accctcgctc	catctttgaa	ctcaaacacg	120
aggaactaac	tgcaccttg	tcctctcccc	agtcctccagt	tcacctcca	tcctcaccct	180
tcctccactc	taagggatat	caacactgcc	cagcacagg	gccctgaatt	tatgtggttt	240
ttatatattt	tttaataaga	tgcactttat	gtcatttttt	aataaagtct	gaagaattac	300
tggtt						305

<210> 67
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 67						
actacacaca	ctccacttgc	ccttgtgaga	cactttgtcc	cagcacttta	ggaatgctga	60
ggtcggacca	gccacatctc	atgtgcaaga	ttgccagca	gacatcaggt	ctgagagtcc	120
cccttttaaa	aaaggggact	tgcttaaaaa	agaagtctag	ccacgattgt	gtagagcagc	180
tgtgctgtgc	tggagattca	cttttgagag	agttctcctc	tgagacctga	tcttttagagg	240
ctgggcagtc	ttgcacatga	gatggggctg	gtctgatctc	agcactcctt	agtctgcttg	300
cctctcccag	ggccccagcc	tggccacacc	tgcttacagg	gcactctcag	atgcccatag	360
catagtttct	gtgctagtgg	accgt				385

<210> 68
 <211> 73
 <212> DNA
 <213> Homo sapien

<400> 68						
acttaaccag	atatattttt	accccagatg	gggatattct	ttgtaaaaaa	tgaaaataaa	60
gtttttttta	tg					73

<210> 69
 <211> 536
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(536)
 <223> n = A,T,C or G

<400> 69						
actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcacctcct	ctcctgcagc	60
tccagctttg	tgtctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120

```

cctgctggcc accctagctg tggccctggc ctggagcccc aaggaggagg ataggataat      180
cccggttggc atctataacg cagacctcaa tgatgagtgg gtacagcgtg cccttcaactt      240
cgccatcagc gagtataaca aggccaccaa agatgactac tacagacgtc cgctgcgggt      300
actaagagcc aggcaacaga ccgttggggg ggtgaattac ttcttcgacg tagagggtggg      360
ccgaaccata tgtaccaagt ccagcccaa cttggacacc tgtgccttcc atgaacagcc      420
agaactgcag aagaaacagt tgtgctcttt cgagatctac gaagttccct ggggagaaca      480
gaangtcctt ggggtgaaatc caggtgtcaa gaaatcctan ggatctgttg ccaggc      536

```

```

<210> 70
<211> 477
<212> DNA
<213> Homo sapien

```

```

<400> 70
atgaccccta acagggggccc tctcagccct cctaattgacc tccggcctag ccatgtgatt      60
tcacttccac tccataacgc tctcataact aggcctacta accaacacac taaccatata      120
ccaatgatgg cgcgatgtaa cagagaaaag cacataccaa ggccaccaca caccacctgt      180
ccaaaaaggc cttcgatacg ggataatcct atttattacc tcagaagttt ttttcttcgc      240
agggatTTTT ctgagccttt taccactcca gcctagcccc taccceccaa ctaggagggc      300
actggccccc aacaggcatc accccgctaa atcccctaga agtcccactc ctaaacacat      360
ccgtattact cgcattcagga gtatcaatca cctgagctca ccatagtcta atagaaaaca      420
accgaaaacca aattattcaa agcactgctt attacaattt tactgggtct ctatTTT      477

```

```

<210> 71
<211> 533
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(533)
<223> n = A,T,C or G

```

```

<400> 71
agagctatag gtacagtgtg atctcagctt tgcaaacaca ttttctacat agatagtact      60
aggatattaat agatatgtaa agaaagaaat cacaccatta ataatggtaa gattggTTTA      120
tgtgatTTTA gtggatTTTT tggcaccctt atatatgttt tccaaacttt cagcagtgat      180
attatttcca taacttaaaa agtgagtttg aaaaagaaaa tctccagcaa gcatctcatt      240
taaataaagg tttgtcatct ttaaaaatac agcaatatgt gactTTTTaa aaaagctgtc      300
aaataggtgt gaccctacta ataattatta gaaatacatt taaaaacatc gagtacctca      360
agtcagtttg ccttgaaaaa tatcaaatat aactcttaga gaaatgtaca taaaagaatg      420
cttcgtaatt ttggagtang aggttccctc ctcaattttg tattttttaa aagtacatgg      480
taaaaaaaaa aattcacaaac agtatataag gctgtaaaat gaagaattct gcc      533

```

```

<210> 72
<211> 511
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

```



```

<400> 72
tattacggaa aaacacacca cataattcaa ctancaaaga anactgcttc agggcgtgta      60
aatgaaagg cttccaggca gttatctgat taaagaacac taaaagaggg acaaggctaa      120
aagccgcagg atgtctacac tatancaggc gctatattgg ttggctggag gagctgtgga      180
aaacatggan agattgggtgc tgganacgc cgtggctatt cctcattgtt attacanagt      240
gaggttctct gtgtgcccac tggtttgaaa accgttctnc aataatgata gaatagtaca      300
cacatgagaa ctgaaatggc ccaaaccag aaagaaagcc caactagatc ctcagaanac      360
gcttctaggg acaataaccg atgaagaaaa gatggcctcc ttgtgcccc gtctgttatg      420
atttctctcc attgcagcna naaaccggtt cttctaagca aacncagggt atgatggcna      480
aaatacaccc cctcttgaag naccnggagg a                                     511

```

```

<210> 73
<211> 499
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(499)
<223> n = A,T,C or G

```

```

<400> 73
cagtgccagc actggtgccg gtaccagtac caataacagt gccagtgccg gtgccagcac      60
cagtgggtggc ttcagtgtct gtgccagcct gaccgccact ctcacatttg ggctcttcgc      120
tggccttgggt ggagctgggt ccagcaccag tggcagctct ggtgcctgtg gtttctccta      180
caagtgagat tttagatatt gttaatcctg ccagtccttc tcttcaagcc aggggtgcac      240
ctcagaaacc tactcaacac agcactctag gcagccacta tcaatcaatt gaagttgaca      300
ctctgcatta aatctatttg ccattttctga aaaaaaaaaa aaaaaaaggg cggccgctcg      360
antctagagg gcccgtttaa acccgctgat cagcctcgac tgtgccttct anttgccagc      420
catctgttgt ttgcccctcc cccgntgcct tccttgaccc tggaaagtgc cactcccact      480
gtccttttct aantaaat

```

```

<210> 74
<211> 537
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(537)
<223> n = A,T,C or G

```

```

<400> 74
tttcatagga gaacacactg aggagatact tgaagaatth ggattcagcc gcgaagagat      60
ttatcagctt aactcagata aatcattga agtaataag gtaaaagcta gtctctaact      120
tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa      180
cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga      240
aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag      300
ggcttttgat ttataanact ttgggtactt atactaaatt atggtagtta tactgccttc      360
cagtttgctt gatataattg ttgatattaa gattcttgac ttatatattg aatgggttct      420
actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat      480
tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtcccgt      537

```

```

<210> 75

```

<211> 467
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(467)
 <223> n = A,T,C or G

```

<400> 75
caaanacaat tgttcaaaag atgcaaataa tacactactg ctgcagctca caaacacctc      60
tgcataattac acgtacctcc tccgtgtcct caagtagtgt ggtctatatt gccatcatca      120
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg      180
tggcacaagg aggccatctt ttccctcatcg gttattgtcc ctagaagcgt cttctgagga      240
tctagttggg ctttctttct ggggtttgggc catttcantt ctcatgtgtg tactattcta      300
tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa      360
caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc      420
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn                      467

```

<210> 76
 <211> 400
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(400)
 <223> n = A,T,C or G

```

<400> 76
aagctgacag cattcggggc gagatgtctc gctccgtggc cttagctgtg ctgcgcctac      60
tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc      120
atccagcaga gaattgaaag tcaaatttcc tgaattgcta tgtgtctggg ttcatccat      180
ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag      240
acttgtcttt cagcaaggac tgggtctttct atctcttgta ctacactgaa ttcaccccca      300
ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng      360
ttnagtggga teganacatg taagcagcan catgggaggt                      400

```

<210> 77
 <211> 248
 <212> DNA
 <213> Homo sapien

```

<400> 77
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct      60
ccagctgccc cggcggggga tgcgaggctc ggagcacctc tgcccggctg tgattgtgc      120
caggcactgt tcctctcagc ttttctgtcc ctttgtctcc ggcaagcgct tctgctgaaa      180
gttcatactt ggagcctgat gtcttaacga ataaaggtcc catgctccac ccgaaaaaaa      240
aaaaaaaaa

```

<210> 78
 <211> 201
 <212> DNA
 <213> Homo sapien

```

<400> 78
actagtcag tgtggtggaa ttccattgtg ttgggcccaa cacaatggct acctttaaca    60
tcacccagac ccgcacctgc ccgtgcccc aagcagagta tgatgcttac    120
tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttggtt ataaatgcct    180
gatttaaaaa aaaaaaaaaa a                                201

```

```

<210> 79
<211> 552
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G

```

```

<400> 79
tccttttggt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg    60
tttaggcagt gctagtaatt tctcgtaat gattctgtta ttactttcct attctttatt    120
cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag    180
tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt    240
atgcaagtta gtaattactc agggtttaact aaattacttt aatatgctgt tgaacctact    300
ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga    360
taatatctta tgttctaaaa gttgggctat acataaanta tnaagaaata tggaatttta    420
ttcccaggaa tatgggggttc atttatgaat antacccggg anagaagttt tgantnaaac    480
cngttttggt taatacgtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa    540
aaaaaaaaaa aa                                         552

```

```

<210> 80
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 80
acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga    60
ggggaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct    120
cacacagact ccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt    180
gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta    240
aggttaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac    300
tcttctaagt cctcttccag cctcactttg agtcctcctt gggggttgat aggaantntc    360
tcttggtttt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat    420
gctgaaaaaa ttaaaatggt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa    476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 81
 tttttttttg tatgcctctn ctgtggngtt attgttgtct ccaccctgga ggagcccagt 60
 ttctttctgta tcttttcttt ctgggggata ttctctggctc tgcccctcca ttcccagcct 120
 ctcatcccca tcttgcactt ttgctagggt tggaggcgct ttctctgtag ccctcagag 180
 actcagtcag cggaataag tcttaggggt ggggggtgtg gcaagccggc ct 232

<210> 82
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 82
 aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacat gccagtgcc gtgccagcac cagtgggtggc ttcagtgtctg 120
 gtgccagcct gaccgccact ctacatttg ggctcttcgc tggccttggg ggagctggtg 180
 ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat tttagatatt 240
 gttaatcctg ccagtctttc tcttcaagcc aggggtgcac ctacagaaacc tactcaacac 300
 agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg 360
 ccatttcaaa aaaaaaaaaa aaa 383

<210> 83
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)
 <223> n = A,T,C or G

<400> 83
 accgaattgg gaccgctggc ttataagcga tcatgtctct cagtattacc tcaacgagca 60
 gggagatcga gtctatacgc tgaagaaatt tgaccgatg ggacaacaga cctgctcagc 120
 ccatactgct cggttctccc cagatgacaa atactctcga caccgaatca ccataagaa 180
 acgcttcaag gtgctcatga ccagcaacc gcgcctgtc ctctgagggt ccttaaactg 240
 atgtcttttc tgccacctgt taccctctcg agactccgta accaaactct tcggactgtg 300
 agccctgatg cctttttgcc agccatactc tttggentcc agtctctcgt ggcgattgat 360
 tatgcttgtg tgaggcaatc atggtggcat caccatnaa gggaacacat ttgantttt 420
 tttncatat tttaaattac naccagaata ntccagaata aatgaattga aaaactctta 480
 aaaaaaaaaa aaaa 494

<210> 84
 <211> 380
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 84

gctggtagcc	tatggcgtgg	ccacggangg	gctcctgagg	cacgggacag	tgacttccca	60
agtatcctgc	gccgcgtctt	ctaccgtccc	tacctgcaga	tcttcgggca	gattccccag	120
gaggacatgg	acgtggccct	catggagcac	agcaactgct	cgtcggagcc	cggcttctgg	180
gcacaccctc	ctggggccca	ggcgggcacc	tgcgtctccc	agtatgccaa	ctggctgggtg	240
gtgctgctcc	tcgatcatct	cctgctcgtg	gccaacatcc	tgctggtcac	ttgctcattg	300
ccatgttcag	ttacacattc	ggcaaagtac	agggcaacag	cnatctctac	tggaagggcc	360
agcgttnccg	cctcatccgg					380

<210> 85

<211> 481

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(481)

<223> n = A,T,C or G

<400> 85

gagtttagctc	ctccacaacc	ttgatgaggt	cgtctgcagt	ggcctctcgc	ttcataccgc	60
tnccatcgtc	atactgtagg	tttgccacca	cctcctgcat	cttggggcgg	ctaatatcca	120
ggaaactctc	aatcaagtca	ccgtcnatna	aacctgtggc	tggttctgtc	ttccgctcgg	180
tgtgaaagga	tctccagaag	gagtgtctga	tcttccccac	acttttgatg	actttattga	240
gtcgattctg	catgtccagc	aggaggttgt	accagctctc	tgacagtgag	gtcaccagcc	300
ctatcatgcc	nttgaacgtg	ccgaagaaca	ccgagccttg	tgtggggggg	gnagtctcac	360
ccagattctg	cattaccaga	nagccgtggc	aaaaganatt	gacaactcgc	ccaggnngaa	420
aaagaacacc	tectggaagt	gctngccgct	cctcgctcnt	tggtggnnng	gcntnccitt	480
t						481

<210> 86

<211> 472

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(472)

<223> n = A,T,C or G

<400> 86

aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgctg	agaattcatt	60
acttgaaaa	gcaacttnaa	gcctggacac	tggtattaaa	attcacaata	tgcaacactt	120
taaacagtgt	gtcaatctgc	tcccttactt	tgtcatcacc	agtctgggaa	taaggggatg	180
ccctattcac	acctgttaaa	agggcgctaa	gcatttttga	ttcaacatct	ttttttttga	240
cacaagtccg	aaaaaagcaa	aagtaaacag	ttnttaattt	gttagccaat	tcactttctt	300
catgggacag	agccatttga	tttaaaaagc	aaattgcata	atattgagct	ttgggagctg	360

atatntgagc ggaagantag cctttctact tcaccagaca caactccttt catattggga 420
 tgttnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg 472

<210> 87
 <211> 413
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(413)
 <223> n = A,T,C or G

<400> 87
 agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatTT tgtgtgcgtg 60
 tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
 cctctttggt atctatatct gtgaaagtTT taatgatctg ccataatgtc ttggggacct 180
 ttgtcttctg tgtaaattggt actagagaaa acacctatnt tatgagtcaa tctagttingt 240
 tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg 300
 ggggacaaag aaaagcnaaa ctgaacatna gaaacaattn cctgggtgaga aattncataa 360
 acagaaattg ggtngtatat tgaaananng catcattnaa acgttttttt ttt 413

<210> 88
 <211> 448
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(448)
 <223> n = A,T,C or G

<400> 88
 cgcagcgggt cctctctatc tagctccage ctctcgcttg ccccaactcc cgcgtcccgc 60
 gtcctagccn accatggccg ggcccctgcg cgcccgcgtg ctctgctgg ccatacctggc 120
 cgtggccctg gccgtgagcc ccgcggccgg ctccagtcct ggcaagccgc cgcgcctggt 180
 gggaggccca tggacccgcg gtggaagaag aagggtgtgcg gcgtgcactg gactttgcgc 240
 tcggcnanta caacaaaccc gcaacnactt ttaccnagcn cgcgctgcag gttgtgccgc 300
 cccaancaaa ttgttactng gggtaantaa ttcttggaag ttgaacctgg gccaaacnng 360
 tttaccagaa ccnagccaat tngaacaatt nccccctcat aacagcccct tttaaaaagg 420
 gaancantcc tgnctctttc caaatttt 448

<210> 89
 <211> 463
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(463)
 <223> n = A,T,C or G

<400> 89
 gaattttgtg cactggccac tgtgatggaa ccattggggc aggatgcttt gagtttatca 60

```

gtagtgattc tgccaaagtt ggtggtgtaa catgagtatg taaaatgtca aaaaatttagc 120
agaggtctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt 180
ctcagtgaca agttnnttct gatgcgaagt tctnattcca gtgttttagt cctttgcatc 240
tttnatgtn agacttgccct ctntnaaatt gcttttgtnt tctgcaggta ctatctgtgg 300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn 360
aattctctcc ccatannaaa acccangccc ttggganaat ttgaaaaang gntccttcnn 420
aattcnnana anttcagntn tcatacaaca naacngganc ccc 463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctnttnt actgtcggac tgttcancca ccaactctac aagttgctgt 60
cttccactca ctgtctgtaa gentnttaac ccagactgta tcttcataaa tagaacaat 120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact 180
tcctttgtta agacttcac tcgtaaaagtc ttaagttttg tagaaaggaa tttaattgct 240
cgttctctaa caatgtcctc tccttgaagt atttggtgta acaaccacc tnaagtcct 300
ttgtgcatcc attttaata tacttaatag ggcattggtg cactagggtta aattctgcaa 360
gagtcactctg tctgcaaaag ttgcgttagt atatctgcc 400

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60
ggtctacccc acatgggagc agcatgccgt agntatataa ggctattccc tgagtcagac 120
atgcctcttt gactaccgtg tgccagtgtt ggtgattctc acacacctcc nncgctctt 180
tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttacaat tcaccacga 240
gacactgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt 300
tgtcaatact aaccgcgtgg tttgcctcca tcacatttgt gatctgtagc tctggataca 360
tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctgtt 420
ngatcaggtt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa 480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(477)

<223> n = A,T,C or G

<400> 92

atacagccca	natcccacca	cgaagatgcg	cttgttgact	gagaacctga	tgcggtcaact	60
ggtcccgcgtg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgcactcctt	120
cccacgcagg	cagcagcggg	gcgggtcaat	gaactccact	cgtggccttg	ggttgacggt	180
taantgcagg	aagaggctga	ccacctcgcg	gtccaccagg	atgcccgact	gtgcgggacc	240
tgcagcgaaa	ctcctcgatg	gtcatgagcg	ggaagcgaat	gangcccagg	gccttgccca	300
gaaccttccg	cctgttctct	ggcgtcacct	gcagctgctg	ccgctnacac	tcggcctcgg	360
accagcggac	aaacggcggt	gaacagccgc	acctcacgga	tgcccantgt	gtcgcgctcc	420
aggaacggcn	ccagcgtgtc	caggtcaatg	tcggtgaanc	ctccgcgggt	aatggcg	477

<210> 93

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 93

gaacggctgg	accttgctc	gcattgtgct	gctggcagga	ataccttggc	aagcagctcc	60
agtccgagca	gccccagacc	gctgccgccc	gaagctaagc	ctgcctctgg	ccttcccctc	120
cgcctcaatg	cagaaccant	agtgggagca	ctgtgttttag	agttaagagt	gaacactgtg	180
tgattttact	tgggaatttc	ctctgttata	tagcttttcc	caatgctaata	ttccaaacaa	240
caacaacaaa	ataacatggt	tgctgtttna	gttggtataaa	agtangtgat	tctgtatnta	300
aagaaaatat	tactgttaca	tatactgctt	gcaanttctg	tattttattgg	tnctctggaa	360
ataaatatat	tattaaa					377

<210> 94

<211> 495

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(495)

<223> n = A,T,C or G

<400> 94

ccctttgagg	ggttagggtc	cagttcccag	tggaagaaac	aggccaggag	aantgcgtgc	60
cgagctgang	cagatttccc	acagtgaccc	cagagccctg	ggctatagtc	tctgacctct	120
ccaaggaaaag	accaccttct	ggggacatgg	gctggaggggc	aggacctaga	ggcaccaagg	180
gaaggcccca	ttccggggct	gttccccgag	gaggaaggga	aggggctctg	tgtgcccccc	240
acgaggaana	ggccctgant	cctgggatca	nacacccctt	cacgtgtatc	cccacacaaa	300
tgcaagctca	ccaaggtccc	ctctcagtc	cttccctaca	ccctgaacgg	ncactggccc	360
acaccacccc	agancacca	cccgccatgg	ggaatgttct	caaggaatcg	cngggcaacg	420
tggaactctng	tcccnnaagg	gggcagaatc	tccaatagan	gganngaacc	cttgctnana	480
aaaaaaaaana	aaaaa					495

<210> 95

<211> 472
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(472)
 <223> n = A,T,C or G

```

<400> 95
ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc      60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt      120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact      180
tatttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt      240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta      300
atcggcaaaa tgtggagtgat atgttctttt cacagtaata tatgcctttt gtaacttcac      360
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata      420
ttanttcana taatttcttt ccttggtttac gttaattttg aaaagaatgc at              472

```

<210> 96
 <211> 476
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = A,T,C or G

```

<400> 96
ctgaagcatt tcttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat      60
gtggtgaaat ttcaaaatta tatgtaactt ctactagttt tactttctcc cccaagtctt      120
ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt      180
attcttcaca gtagatgatg aaagagtcct ccagtgtctt gngcanaatg ttctagnat      240
agctggatac atacngtgagg agttctataa actcatacct cagtgggact naaccaaaaat      300
tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct      360
gcaggtactc ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt      420
tacaaagtct atcttctcta nangtctgtn aaggaacaat ttaatcttct agcttt      476

```

<210> 97
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

```

<400> 97
actcttttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaatggata      60
aaataatgct gcaaacttaa tgttctttatg caaaatggaa cgctaataaa acacagctta      120
caatcgcaaa tcaaaactca caagtgtctca tctgtttagat atttagtgta ataagactta      180
gattgtgctc cttcggatat gattgtttct canatcttgg gcaatnttcc ttagtcaaat      240

```

caggctacta	gaattctggt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaatttcact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnntttta	natcaaagta	ttttgtgttt	ggaantgtnn	aaatgaaatc	tgaatgtggg	420
ttenatctta	ttttttcccn	gacnactant	tnctttttta	gggnctattc	tgancctac	479

<210> 98
 <211> 461
 <212> DNA
 <213> Homo sapien

<400> 98						
agtgacttgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtcc	tgctacttat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgattcag	tttcctctac	ggatgagaga	ctggctcaag	aatactctca	tcagacttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagagggt	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
tttggaataa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

<210> 99
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 99						
gtggccgcgc	gcaggtgttt	cctcgtagcg	cagggccccc	tcccttcccc	aggcgteccct	60
cggcgccctct	gcgggcccga	ggaggagcgg	ctggcggttg	gggggagtgt	gacccaccct	120
cggtgagaaa	agccttctct	agcgatctga	gagggctgcc	ttgggggtac	c	171

<210> 100
 <211> 269
 <212> DNA
 <213> Homo sapien

<400> 100						
cggccgcaag	tgcaactcca	gctggggccg	tgcggaacga	gattctgcca	gcagttgggtc	60
cgactgcgac	gacggcggcg	gcgacagtcg	caggtgcagc	gcgggcgcct	gggtctctgc	120
aaggctgagc	tgacgccgca	gaggtcgtgt	cacgtcccac	gaccttgacg	ccgtcggggga	180
cagccggaac	agagcccggg	gaagcgggag	gcctcgggga	gccctcggg	aagggcggcc	240
cgagagatac	gcaggtgcag	gtggccgcc				269

<210> 101
 <211> 405
 <212> DNA
 <213> Homo sapien

<400> 101						
tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttattttgca	60
gctagcaagg	taacagggtg	gggcatgtgt	acatgttcag	gtcaacttcc	tttgtcgtgg	120
ttgattgggt	tgtctttatg	ggggcggggg	ggggtagggg	aaacgaagca	aataacatgg	180
agtgggtgca	ccctccctgt	agaacctggt	tacaaagctt	ggggcagttc	acctggtctg	240
tgaccgtcat	tttcttgaca	tcaatgttat	tagaagtcag	gatatctttt	agagagtcca	300
ctgttctgga	gggagattag	ggtttcttgc	caaatccaac	aaaatccact	gaaaaagttg	360

gatgatcagt acgaataccg aggcataatc tcataatcggg ggcca

405

<210> 102
 <211> 470
 <212> DNA
 <213> Homo sapien

<400> 102

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
ggcacttaat	ccatttttat	ttcaaaatgt	ctacaaattt	aatcccat	tacgggtatt	120
tcaaaatcta	aattattcaa	attagccaaa	tccttaccaa	ataataccca	aaaatcaaaa	180
atatacttct	ttcagcaaac	ttgttacata	aattaaaaaa	atatatacgg	ctgggtgttt	240
caaagtacaa	ttatcttaac	actgcaaac	ttttaaggaa	ctaaaataaa	aaaaaacact	300
ccgcaaaggt	taaagggaac	aacaaattct	tttacaacac	cattataaaa	atcatatctc	360
aaatcttagg	ggaatatata	cttcacacgg	gatcttaact	tttactcact	ttgtttattt	420
ttttaaacca	ttgtttgggc	ccaacacaat	ggaatcccc	ctggactagt		470

<210> 103
 <211> 581
 <212> DNA
 <213> Homo sapien

<400> 103

tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttgggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgcctaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
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<210> 104
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 <212> DNA
 <213> Homo sapien

<400> 104

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 <212> DNA

<213> Homo sapien

<400> 105

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<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

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<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

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<210> 108
<211> 382
<212> PRT
<213> Homo sapien

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<400> 108
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35 40 45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50 55 60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65 70 75 80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85 90 95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100 105 110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115 120 125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130 135 140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
145 150 155 160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
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Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180 185 190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
195 200 205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
210 215 220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe
225 230 235 240
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro
245 250 255
Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala
260 265 270
Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp
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Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val
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His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu

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Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala						
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Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn						
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<210> 109
 <211> 1524
 <212> DNA
 <213> Homo sapien

<400> 109

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<210> 110
 <211> 3410
 <212> DNA
 <213> Homo sapien

<400> 110

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<211> 1289
 <212> DNA
 <213> Homo sapien

<400> 111

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 <211> 315
 <212> PRT
 <213> Homo sapien

<400> 112

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Phe	Phe	Leu	Phe	Phe	Leu	Gly	Val	Trp	Leu	Val	Ala	Tyr	Gly	Val	Ala
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 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr
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 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val
 245 250 255
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg
 260 265 270
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly
 275 280 285
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly
 290 295 300
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
 305 310 315

<210> 113
 <211> 553
 <212> PRT
 <213> Homo sapien

<400> 113
 Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 1 5 10 15
 Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
 20 25 30
 Ala Ala Gly Ile Thr Tyr Val Pro Leu Leu Leu Glu Val Gly Val
 35 40 45
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly
 50 55 60
 Leu Val Cys Val Pro Leu Leu Gly Ser Ala Ser Asp His Trp Arg Gly
 65 70 75 80
 Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile
 85 90 95
 Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu
 100 105 110
 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly
 115 120 125
 Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu
 130 135 140
 Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala
 145 150 155 160
 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr
 165 170 175
 Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu
 180 185 190
 Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
 195 200 205
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly

210		215		220
Pro Thr Glu Pro Ala	Glu Gly Leu Ser Ala	Pro Ser Leu Ser Pro His		
225	230	235	240	
Cys Cys Pro Cys Arg	Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu			
	245	250	255	
Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg				
	260	265	270	
Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe				
	275	280	285	
Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val				
	290	295	300	
Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly				
305	310	315	320	
Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu				
	325	330	335	
Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg				
	340	345	350	
Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala				
	355	360	365	
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu				
	370	375	380	
Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala				
385	390	395	400	
Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly				
	405	410	415	
Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu				
	420	425	430	
Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala				
	435	440	445	
Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser				
	450	455	460	
Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala				
465	470	475	480	
Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp				
	485	490	495	
Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser				
	500	505	510	
Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala				
	515	520	525	
Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp				
	530	535	540	
Lys Ser Asp Leu Ala Lys Tyr Ser Ala				
545	550			

<210> 114
 <211> 241
 <212> PRT
 <213> Homo sapien

<400> 114
 Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
 1 5 10 15
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val
 20 25 30

```

Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
   35                               40                               45
Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
   50                               55                               60
Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
  65                               70                               75                               80
Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile
   85                               90                               95
Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
  100                               105                               110
Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys
  115                               120                               125
Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met
  130                               135                               140
Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp
  145                               150                               155                               160
Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn
  165                               170                               175
Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala
  180                               185                               190
His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile
  195                               200                               205
Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly
  210                               215                               220
Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu
  225                               230                               235                               240
Gln

```

```

<210> 115
<211> 366
<212> DNA
<213> Homo sapien

```

```

<400> 115
gctctttctc tcccctcctc tgaatttaat tctttcaact tgcaatttgc aaggattaca      60
catttcactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtctttgt ttaaaattac      120
ttggtttggt aatccatctt gctttttccc cattggaact agtcattaac ccatctctga      180
actggtagaa aaacatctga agagctagtc tatcagcadc tgacaggtga attggatggt      240
tctcagaacc atttcaccca gacagcctgt ttctatcctg tttaataaat tagtttggtg      300
tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt      360
ttagtc                                           366

```

```

<210> 116
<211> 282
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

```

```

<400> 116

```

```

acaaagatga accatttcct atattatagc aaaattaaaa tctacccgta ttctaattatt 60
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120
agactttact attttcatat tttaagacac atgattttatc ctatttttagt aacctgggtc 180
atacggttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240
tcaatctnga actatctana tcacagacat ttctattcct tt 282

```

```

<210> 117
<211> 305
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(305)
<223> n = A,T,C or G

```

```

<400> 117
acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca 60
tattttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120
aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga 180
tactgatccc tgatcactgt cctaattgcag gatgtgggaa acagatgagg tcacctctgt 240
gactgccccca gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300
tgggt 305

```

```

<210> 118
<211> 71
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(71)
<223> n = A,T,C or G

```

```

<400> 118
accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60
aantcctggg t 71

```

```

<210> 119
<211> 212
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(212)
<223> n = A,T,C or G

```

```

<400> 119
actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca 60
gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac 120
agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctcactaanc ggaattaant 180
aatggantca aganactccc aggctcagc gt 212

```

<210> 120
 <211> 90
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(90)
 <223> n = A,T,C or G

<400> 120
 actcgttgca natcaggggc cccccagagt caccgttgca ggagtccttc tggctcttgcc 60
 ctccgccggc gcagaacatg ctgggggtggt 90

<210> 121
 <211> 218
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(218)
 <223> n = A,T,C or G

<400> 121
 tgtancgtga anacgacaga nagggttgct aaaaatggag aanccttgaa gtcattttga 60
 gaataagatt tgctaaaaga tttggggcta aaacatggtt attgggagac atttctgaag 120
 atatncangt aaattangga atgaattcat ggttcctttg ggaattcctt tacgatngcc 180
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 122
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60
 catttgtag ctcatggaac aggaagtcgg atggtggggc atcttcagtg ctgcatgagt 120
 caccaccccg gcgggggtcat ctgtgccaca ggtccctgtt gacagtgcgg t 171

<210> 123
 <211> 76
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(76)
 <223> n = A,T,C or G

<400> 123
 tgtagcgtga agacnacaga atggtgtgtg ctgtgctatc caggaacaca ttattatca 60
 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggg ggaaaattgc gttaccaact ataccactgg 60
 ctgaaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catggtgggg gtcttgcacg tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgcctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccagggatca ccaaataattt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120
 ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 180
 ccaaagcatt tggacagtgt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 240
 ttctgcaaa aggtcactc agtcctttgc ttgtctcagt gactgggctc cccagggcct 300
 aggtgcctt cttttccatg tcc 323

<210> 129
 <211> 192
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(192)
 <223> n = A,T,C or G

<400> 129
 acatacatgt gtgtatatatt tttaaataatca cttttgtatc actctgactt tttagcatac 60
 tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcadc 120
 tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg 180
 gataaacaaa gt 192

<210> 130
 <211> 362
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(362)
 <223> n = A,T,C or G

<400> 130
 ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca 60
 tataatgacg caacaaaaag gtgctgttta gtcctatggt tcagtttatg cccctgacaa 120
 gtttccattg tgttttgccg atcttctggc taatcgtggt atcctccatg ttattagtaa 180
 ttctgtattc ctttttgta acgcctggta gatgtaacct gctangaggc taactttata 240
 cttatttaaa agctcttatt ttgtggatcat taaaatggca atttatgtgc agcactttat 300
 tgcagcagga agcacgtgtg ggttgggtgt aaagctcttt gctaattctta aaaagtaatg 360
 gg 362

<210> 131
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 131
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttggt ttaatggagt ttcccatgca 60
 gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaatgaga 120
 gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180
 ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttgggtttatt atccaactaa 240
 cttccatctg ttatcactgg agaaagccca gactccccc ancgnggtacg gattgtgggc 300
 atanaaggat tgggtgaagc tggcgttgtg gt 332

<210> 132
 <211> 322
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(322)
 <223> n = A,T,C or G

<400> 132
 acttttgcca tttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60
 agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120
 ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggaccttg tatctcgggt 180
 tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg 240
 ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct 300
 gtaacaatct acaattggtc ca 322

<210> 133
 <211> 278
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 133
 acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt 60
 cttgtttttc tttccatctg gtcctgggt tgacaatttg tggaaacaac tctattgcta 120
 ctatttaaaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg 180
 ctattcctgt tttgtcaaag aaattatatt tttcaaaata tgtntatttg tttgatgggt 240
 cccacgaaac actaataaaa accacagaga ccagcctg 278

<210> 134
 <211> 121
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(121)
 <223> n = A,T,C or G

<400> 134
 gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60
 tgattctctg aggttaaact tggttttcaa atgttatttt tacttgatt ttgcttttgg 120
 t 121

<210> 135
 <211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtgt gtgactgggtt aagcgtgcga caaaggctcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tgggtactcca 180
 ggggtgcccc caactcctgc agccgctcct ctgtgccagn ccctgnaagg aactttcgct 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccagggtt 60
 gctgtgattg tatccgaata ntcctcgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggg cctgcctgcc ttggctctga 180
 cctggcggcc agccagccag ccacagggtg gcttcttctt tttgtggtga caacnccaag 240
 aaaactgcag aggccagggt tcaggtgtna gtgggtangt gaccataaaa caccagggtgc 300
 tcccaggaac ccgggcaaaag gccatcccca cctacagcca gcatgcccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actgggtgtg tngggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60
 ggaggaagtgt tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120
 ttggctggtc ccaactggtg tcactgtcat tgggtggggt cctgt 165

<210> 138
 <211> 338
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(338)
 <223> n = A,T,C or G

```

<400> 138
actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc      60
ttaacttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccac      120
tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg      180
tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt      240
cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa      300
aaaaactgat gccttttttt tttttttttg taaaattc                               338

```

<210> 139
 <211> 382
 <212> DNA
 <213> Homo sapien

```

<400> 139
gggaatcttg gtttttgcca tctggtttgc ctatagccga ggccactttg acagaacaaa      60
gaaagggact tcgagtaaga aggtgattta cagccagcct agtggccgaa gtgaaggaga      120
attcaaacag acctcgtcac tcctgggtgtg agcctggctg gctcaccgcc tatcatctgc      180
atttgccctta ctcaggtgct accggactct ggcccctgat gtctgtagtt tcacaggatg      240
ccttattttgt cttctacacc ccacagggcc ccctacttct tcggatgtgt ttttaataat      300
gtcagctatg tgccccatcc tccttcacgc cctccctccc tttcctacca ctgctgagtg      360
gcctggaact tgtttaaagt gt                               382

```

<210> 140
 <211> 200
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

```

<400> 140
accaaaancct ctttctgttg tgttngatth tactataggg gtttngcttn ttctaaanat      60
acttttcatt taacancctt tgtaagtgt caggctgcac tttgctccat anaattattg      120
ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttggtgaaat cacatatttt      180
atattcagca taaaggagaa                               200

```

<210> 141
 <211> 335
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(335)
 <223> n = A,T,C or G

```

<400> 141
actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttggtgg      60

```

```

gggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc aggggtttgtt      120
atgcatgtag agaaccctaaa ctaattttatt aaacaggata gaaacaggct gtctgggtga      180
aatgggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg      240
tttttctacc agttcagaga tnggttaatg actantttcca atgggggaaaa agcaagatgg      300
attcacaaac caagtaattt taaacaaaga cactt                                     335

```

```

<210> 142
<211> 459
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

```

```

<400> 142
accagggttaa tattgccaca tatatccttt ccaattgctg gctaaacaga cgtgtattta      60
gggttggttta aagacaaccc agcttaatat caagagaaat tgtgacctt catggagtat      120
ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca      180
cacatggtcc aacaacactc aaataataaa tcaaataatna tcagatgtta aagattggtc      240
ttcaaacatc atagccaatg atgccccgct tgccataat ctctccgaca taaaaccaca      300
tcaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctgtttga      360
agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct      420
cagcanggtt gggaggaacc agctcaacct tggcgtant                                     459

```

```

<210> 143
<211> 140
<212> DNA
<213> Homo sapien

```

```

<400> 143
acatttcctt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg      60
aaatccaaac agtctctcct agaaaggaat agtgtcacca accccacca tctccctgag      120
accatccgac ttccctgtgt                                     140

```

```

<210> 144
<211> 164
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(164)
<223> n = A,T,C or G

```

```

<400> 144
acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct      60
atctatacca ctctcccttc tgaaaaacaan aatcactanc caatcactta taaaaattg      120
aggcaattaa tccatatttg ttttcaataa ggaaaaaaaag atgt                                     164

```

```

<210> 145
<211> 303
<212> DNA

```

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(303)

<223> n = A,T,C or G

<400> 145

acgtagacca	tccaactttg	tatttgtaat	ggcaaacatc	cagnagcaat	tcctaaacaa	60
actggagggt	atttatatccc	aattatccca	ttcattaaca	tgccctcctc	ctcaggctat	120
gcaggacagc	tatcataagt	cggcccaggc	atccagatac	taccatttgt	ataaacttca	180
gtaggggagt	ccatccaagt	gacaggtcta	atcaaaggag	gaaatggaac	ataagcccag	240
tagtaaaatn	ttgcttagct	gaaacagcca	caaagactt	accgccgtgg	tgattaccat	300
caa						303

<210> 146

<211> 327

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(327)

<223> n = A,T,C or G

<400> 146

actgcagctc	aattagaagt	ggtctctgac	tttcatcanc	ttctccctgg	gctccatgac	60
actggcctgg	agtgactcat	tgctctgggt	ggttgagaga	gctcctttgc	caacaggcct	120
ccaagtcagg	gctgggattt	gtttcctttc	cacattctag	caacaatatg	ctggccactt	180
cctgaacagg	gagggtgga	ggagccagca	tggaacaagc	tgccactttc	taaagtagcc	240
agacttgccc	ctgggcctgt	cacacctact	gatgaccttc	tgtgcctgca	ggatggaatg	300
taggggtgag	ctgtgtgact	ctatggt				327

<210> 147

<211> 173

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(173)

<223> n = A,T,C or G

<400> 147

acattgtttt	tttgagataa	agcattgana	gagctctcct	taacgtgaca	caatggaagg	60
actggaacac	ataccacat	ctttgttctg	agggataatt	ttctgataaa	gtcttgctgt	120
atattcaagc	acatatgtta	tatattattc	agttccatgt	ttatagccta	gtt	173

<210> 148

<211> 477

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 148
 acaaccactt tatctcatcg aatttttaac ccaaactcac tcaactgtgcc tttctatcct 60
 atgggatata ttatttgatg ctccatttca tcacacatat atgaataata cactcatact 120
 gccctactac ctgctgcaat aatcacattc ccttcctgtc ctgaccctga agccattggg 180
 gtggctctag tggccatcag tccangcctg caccttgagc ccttgagctc cattgctcac 240
 nccancccac ctccaccgacc ccacccctctt acacagctac ctcccttgctc tctaacccca 300
 tagattatnt ccaaattcag tcaattaagt tactattaac actctaccgg acatgtccag 360
 caccactggg aagccttctc cagccaacac acacacacac acacncacac acacacatat 420
 ccaggcacag gctacctcat cttcacaatc acccctttaa ttaccatgct atggtgg 477

<210> 149
 <211> 207
 <212> DNA
 <213> Homo sapien

<400> 149
 acagttgtat tataatatca agaaataaac ttgcaatgag agcatttaag agggaagaac 60
 taacgtatatt tagagagcca aggaagggtt ctgtggggag tgggatgtaa ggtggggcct 120
 gatgataaat aagagtcagc caggtaagtg ggtggtgtgg tatgggcaca gtgaagaaca 180
 tttcaggcag agggaacagc agtgaaa 207

<210> 150
 <211> 111
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(111)
 <223> n = A,T,C or G

<400> 150
 accttgattt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
 cacttaaatg tggtcagtgt ttggacttgt taactantgg catctttggg t 111

<210> 151
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 151
 agcgcggcag gtcatatga acattccaga tacctatcat tactcgatgc tgttgataac 60
 agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat 120
 ggataccaac cggaaaaccc ctatcccgca cagcccactg tgggtcccccac tgtctacgag 180
 gtgcatccgg ctcaagt 196

<210> 152
 <211> 132
 <212> DNA
 <213> Homo sapien

```

<400> 152
acagcacttt cacatgtaag aagggagaaa ttcctaaatg taggagaaag ataacagaac      60
cttccccctt tcattctagt gtggaaacct gatgctttat gttgacagga atagaaccag      120
gagggagttt gt                                     132

```

```

<210> 153
<211> 285
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

```

```

<400> 153
acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag      60
cttctgtctt tatgtcctca tctgacaact ctttaccatt tttatcctcg ctacgcagga      120
gcacatcaat aaagtccaaa gtcttggaact tggccttggc ttggaggaag tcatcaacac      180
cctggctagt gaggggtcgg cgccgctcct ggatgacggc atctgtgaag tcgtgcacca      240
gtctgcaggg cctgtggaag cgccgtccac acggagtnag gaatt                          285

```

```

<210> 154
<211> 333
<212> DNA
<213> Homo sapien

```

```

<400> 154
accacagtec tgttgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc      60
accccaaatt ttctcttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac      120
cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg      180
attggcacag gagtccaagg tgttcagctc cctcctccg tggaacgaga ctctgatttg      240
agtttcacaa attctcgggc cacctcgtea ttgctcctct gaaataaaat ccggagaatg      300
gtcaggccctg tctcatccat atggatcttc cgg                                     333

```

```

<210> 155
<211> 308
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

```

```

<400> 155
actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg      60
gaaagtgcct tgggaactgt aaagtgccta acacatgata gatgattttt gttataatat      120
ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc      180
atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggt      240
gcttttagcc tcanaagtt tctctgaagc caaccaaacc tctangtgta aggcattgctg      300
gccctggg                                     308

```

<210> 156
 <211> 295
 <212> DNA
 <213> Homo sapien

<400> 156
 accttgctcg gtgcttggaa catattagga actcaaaata tgagatgata acagtgccta 60
 ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaactga 120
 gaataggaga ttatgtttgg cctcatatt ctctcctatc ctccttgctt cattctatgt 180
 ctaatatatt ctcaatcaaa taaggttagc ataatcagga aatcgaccaa ataccaatat 240
 aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157
 <211> 126
 <212> DNA
 <213> Homo sapien

<400> 157
 acaagtttaa atagtgtgtg cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
 gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120
 cttagt 126

<210> 158
 <211> 442
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(442)
 <223> n = A,T,C or G

<400> 158
 acccactggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
 aanccagcag gctgccccta gtcagtcctt ccttccagag aaaaagagat ttgagaaagt 120
 gcctgggtaa ttcaccatta atttcctccc ccaaactctc tgagtcttcc cttaatat 180
 ctggtggttc tgaccaaagc aggtcatggt ttgttgagca ttgggatcc cagtgaagta 240
 natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
 ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
 nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
 tgttcattct ctgatgtcct gt 442

<210> 159
 <211> 498
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(498)
 <223> n = A,T,C or G

<400> 159
 acttccaggt aacgttgttg tttccgttga gcctgaactg atgggtgacg ttgtagggtc 60

tccaacaaga	actgaggttg	cagagcgggt	aggggaagagt	gctgttccag	ttgcacctgg	120
gctgctgtgg	actgttggtg	attcctcact	acggcccaag	gttgtggaac	tggcanaaag	180
gtgtgttggt	gganttgagc	tcgggcggct	gtggtaggtt	gtgggtcttt	caacaggggc	240
tgctgtggtg	ccgggangtg	aangtggttg	gtcacttgag	cttggccagc	tctggaaagt	300
antanattct	tcctgaaggc	cagcgtttgt	ggagctggca	ngggtcantg	ttgtgtgtaa	360
cgaaccagtg	ctgctgtggg	tgggtgtana	tcctccacaa	agcctgaagt	tatggtgtcn	420
tcaggtaana	atgtggtttc	agtgtccctg	ggcngctgtg	gaaggttgta	nattgtcacc	480
aagggaataa	gctgtggt					498

<210> 160
 <211> 380
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(380)
 <223> n = A,T,C or G

acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgcct	120
ggagcatggc	atagaggaag	ctganaaatg	tggggctctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgtgtga	agagatgccc	catgaccca	gatgcctctc	240
ccacccttac	ctccatctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctgtt	cacaacggta	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<210> 161
 <211> 114
 <212> DNA
 <213> Homo sapien

actccacatc	ccctctgagc	aggcggttgt	cgttcaagggt	gtatttggcc	ttgcctgtca	60
cactgtccac	tggccoctta	tccacttggt	gcttaatccc	tcgaaagagc	atgt	114

<210> 162
 <211> 177
 <212> DNA
 <213> Homo sapien

actttctgaa	tcgaatcaaa	tgatacttag	tgtagtttta	atatactcat	atatatcaaa	60
gttttactac	tctgataatt	ttgtaaacca	ggtaaccaga	acatccagtc	atacagcttt	120
tggtgatata	taacttggca	ataacccagt	ctggtgatac	ataaaactac	tcactgt	177

<210> 163
 <211> 137
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(137)
 <223> n = A,T,C or G

<400> 163
 catttatata gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagac 60
 canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacett 120
 catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctatct catacctaat gagggagttc caggagattc aaccaggaaa 120
 tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtag 300
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
 tctagtaggc acagggctcc caggccaggc ctcatctctc tctggcctct aatagtcact 420
 gattgtgtag ccatgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
 <211> 195
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(195)
 <223> n = A,T,C or G

<400> 165
 acagtttttt atanatatcg acattgccgg cacttggtgtt cagtttcata aagctggtgg 60
 atccgctgtc atccactatt ccttggctag agtaaaaatt attottatag cccatgtccc 120
 tgcaggccgc ccgccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
 tcctctgaga tgagt 195

<210> 166
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

```

<400> 166
acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc      60
cgaggtcgga gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgccacct      120
ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt      180
tttgacagacc agcctgagca aggggcggat gttcagcttc agctcctcct tcgtcagggtg      240
gatgccaacc tcgtctangg tccgtgggaa gctgggtgtc acntcaccta caacctgggc      300
gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt      360
nggggccttt ttggtgaact ttc                                           383

```

```

<210> 167
<211> 247
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(247)
<223> n = A,T,C or G

```

```

<400> 167
acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat      60
tggagcagaa actggagcaa gaagtgggccc tggggctgaa gtagagacca aggccactgc      120
tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac      180
tcaatctgan tccaaagtgg tggtctggaac actgggtcatg acanaggcag tgactctgac      240
tgangtc                                                                247

```

```

<210> 168
<211> 273
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(273)
<223> n = A,T,C or G

```

```

<400> 168
acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg ttacttcaa      60
aatccctcan ccttgttctt cactactgtc tatactgana gtgtcatgtt tccacaaagg      120
gctgacacct gagcctgnat ttctactcat ccctgagaag ccctttccag taggggtggc      180
aattcccaac ttccttgcca caagcttccc aggcctttctc ccctggaaaa ctccagcttg      240
agtcccagat acactcatgg gctgccctgg gca                               273

```

```

<210> 169
<211> 431
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

```

```

<400> 169

```

```

acagccttgg cttccccaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc      60
agctcagacc aggggtcaaag gatgtgacat caacagtttc tggtttcaga acagggttcta    120
ctactgtcaa atgaccccccc atacttcctc aaaggctgtg gtaagttttg cacagggtgag    180
ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccacactgac    240
cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcaactgctgg gcaccagctc    300
acgcacatca ctgacaaccg ggatggaaaa agaantgcc aactttcatac atccaactgg    360
aaagtgatct gatactggat tcttaattac cttcaaaagc ttctgggggc catcagctgc    420
tcgaacactg a                                     431

```

```

<210> 170
<211> 266
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

```

```

<400> 170
acctgtggggc tgggctgtta tgccgtgtgcc ggctgctgaa agggagttca gaggtggagc      60
tcaaggagct ctgcaggcat ttgccaanc ctctccanag canagggagc aacctacact    120
ccccgctaga aagacaccag attggagtc tgggaggggg agttgggggtg ggcatttgat    180
gtatacttgt cacctgaatg aangagccag agaggaanga gacgaanatg anattggcct    240
tcaaagctag ggggtctggca ggtgga                                     266

```

```

<210> 171
<211> 1248
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1248)
<223> n = A,T,C or G

```

```

<400> 171
ggcagccaaa tcataaacgg cgaggactgc agcccgcaact cgcagccctg gcaggcgcca      60
ctggtcatgg aaaacgaatt gttctgctcg ggcgtcctgg tgcacccgca gtgggtgctg    120
tcagccgcac actgtttcca gaagtgaagt cagagctcct acaccatcgg gctgggcctg    180
cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta    240
cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac    300
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgcctacc    360
gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc    420
gtgctgcagt gcgtgaacgt gtcggtgggt tctgaggagg tctgcagtaa gctctatgac    480
ccgctgtacc accccagcat gttctgcgcc ggcggagggc aagaccagaa ggactcctgc    540
aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc    600
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtct acaccaacct ctgcaaattc    660
actgagtga tagagaaaac cgtccaggcc agttaactct ggggactggg aacctatgaa    720
attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agccctcct    780
ccctcaggcc caggagtcca ggcgccagc ccctcctccc tcaaaccaag ggtacagatc    840
cccagccctt cctccctcag acccaggagt ccagaccccc cagccctccc tccctcagac    900
ccaggagtcc agccctcctt ccctcagacc caggagtcca gacccccag ccctcctccc    960
ctcagaccca ggggtccagg cccccaaccc ctctcctccc agactcagag gtccaagccc   1020

```

```

ccaaccntc attccccaga cccagaggtc caggtcccag cccctcntcc ctcagaccca 1080
gcgggtccaat gccacctaga ctntccctgt acacagtgcc cccttggtggc acgttgaccc 1140
aaccttacca gttgggttttt catttttngt ccctttcccc tagatccaga aataaagttt 1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1248

```

```

<210> 172
<211> 159
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid

```

```

<400> 172
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
1 5 10 15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
20 25 30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
35 40 45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
50 55 60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
65 70 75 80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
85 90 95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
100 105 110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
115 120 125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
130 135 140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
145 150 155

```

```

<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G

```

```

<400> 173
ggcagcccgc actgcagcc ctggcaggcg gcactggtca tggaaaacga attgttctgc 60
tcgggcgtcc tgggtcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc 120
tacaccatcg ggctgggcct gcacagtctt gaggccgacc aagagccagg gagccagatg 180
gtggaggcca ggcctctccgt acggcaccca gagtacaaca gacccttgct cgctaacgac 240
ctcatgctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc 300
attgcttcgc agtgccttac cgcggggaac tcttgctcgc tttctggctg gggctcgtcg 360

```

```

gcgaacggtg agctcacggg tgtgtgtctg cctctttcaa ggaggctctc tgcccagtcg      420
egggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga      480
acgtgtcggg ggtgtctgag gaggctgca gtaagctcta tgaccogctg taccacccca      540
gcatgttctg cgccggcgga gggcaagacc agaaggactc ctgcaacggg gactctgggg      600
ggccctgat ctgcaacggg tacttgagg gccttgtgtc tttcgaaaa gcccgtgtg      660
gccaagttgg cgtgccagg gtctacacca acctctgcaa attcactgag tggatagaga      720
aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac      780
atcctgcgga aggaattcag gaatatctgt tcccagcccc tcctcctca ggcccaggag      840
tccaggcccc cagccctcc tccctcaaac caagggtaca gatccccagc cctcctccc      900
tcagacccag gagtccagac cccccagccc ctctccctc agaccagga gtccagcccc      960
tcctcctca gaccaggag tccagacccc ccagcccctc ctccctcaga cccaggggtt    1020
gaggccccca acccctcctc ctccagagtc agagggtcaa gcccacaacc cctcgttccc    1080
cagacccaga ggttnaggtc ccagcccctc ttcctcaga cccagnggtc caatgccacc    1140
tagattttcc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggt    1200
ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga ngngcaaaaa    1260
aaaaa                                     1265

```

```

<210> 174
<211> 1459
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1459)
<223> n = A,T,C or G

```

```

<400> 174
ggtcagccgc acactgtttc cagaagtgag tgcagagctc ctacaccatc gggctggggc      60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg    120
tacggcacc agagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttgg    180
acgaatccgt gtccgagtc gacaccatcc ggagcatcag cattgcttcg cagtgcctta    240
ccgcggggaa ctcttgctc gtttctggct ggggtctgct ggcgaacggg gagctcacgg    300
gtgtgtgtct gccctcttca aggaggtcct ctgcccagtc gcgggggctg acccagagct    360
ctgcgtccca ggcagaatgc ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga    420
ngagggtctg antaagctct atgaccgct gtaccacccc ancatgttct gcgccggcgg    480
agggaagac cagaaggact cctgcaacgt gagagagggg aaaggggagg gcaggcgact    540
cagggaaggg tggagaaggg ggagacagag acacacaggg ccgcatggcg agatgcagag    600
atggagagac acacagggag acagtgacaa ctagagagag aaactgagag aaacagagaa    660
ataaacacag gaataaagag aagcaaagga agagagaaac agaaacagac atggggaggc    720
agaaacacac acacatagaa atgcagttga ccttccaaca gcatggggcc tgaggggcgt    780
gacctccacc caatagaaaa tcctcttata acttttgact ccccaaaaaa ctgactagaa    840
atagcctact gttgacgggg agccttacca ataacataaa tagtcgattt atgcatacgt    900
tttatgcatt catgatatac ctttgttga attttttgat atttctaagc tacacagttc    960
gtctgtgaat ttttttaa atgttgcaact ctctaaaaat ttttctgatg tgtttattga   1020
aaaaatccaa gtataagtgg acttgtgcat tcaaaccagg gttgttcaag ggtcaactgt   1080
gtacccagag ggaaacagtg acacagattc atagaggtga aacacgaaga gaaacaggaa   1140
aaatcaagac tctacaaaag ggtgggcat gcctgtaatc ccagcacttt   1200
gggaggcgag gcaggcgat cacttgagggt aaggagttca agaccagcct ggccaaaatg   1260
gtgaaatcct gtctgtacta aaaatacaaaa agttagctgg atatggtggc aggcgcctgt   1320
aatcccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt   1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct   1440
caaaaaaaaa aaaaaaaaaa                                     1459

```

<210> 175
 <211> 1167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1167)
 <223> n = A,T,C or G

```

<400> 175
gcgagccct ggcagggcgc actgggtcatg gaaaacgaat tgttctgctc gggcgctctg      60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg      120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggg ggagggccagc      180
ctctccgtac ggcacccaga gtacaacaga ctcttctctc ctaacgacct catgctcatc      240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag      300
tgccctaccg cggggaactc ttgcctcgtn tctggctggg gtctgctggc gaacggcaga      360
atgcctaccg tgctgcaact cgtgaacgtg tcgggtgggt ctgaggangt ctgcagtaag      420
ctctatgacc cgctgtacca ccccagcatg ttctgcgccg gcggagggca agaccagaag      480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt      540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc caggtgtcta caccaacctc      600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttactctg gggactggga      660
acccatgaaa ttgaccccca aatacactct gcggaangaa ttcaggaata tctgttccca      720
gcccctctc cctcaggccc aggagtccag gcccagccc cctcctccct caaaccaagg      780
gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagaccccc agcccctcnt      840
ccntcagacc caggagtcca gcccctctc cntcagacgc aggagtccag acccccagc      900
ccntcntccg tcagaccagc ggggtcaggg ccccaacccc tcntcntca gagtccaggg      960
tccaagcccc caaccctcg ttcccagac ccagaggtnc aggtcccagc cctcctccc      1020
tcagaccagc cgggtccaatg ccacctagan tntccctgta cacagtgcgc ccttgtggca      1080
ngttgacca accttaccag ttggtttttc attttttgc ctttcccct agatccagaa      1140
ataaagtnta agagaagcgc aaaaaaa

```

<210> 176
 <211> 205
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(205)
 <223> Xaa = Any Amino Acid

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
  1          5          10          15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
  20          25          30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
  35          40          45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
  50          55          60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
  65          70          75          80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly

```

```
<210> 177
<211> 1119
<212> DNA
<213> Homo sapien
```

```
<210> 178
<211> 164
<212> PRT
<213> Homo sapien
```

```
<220>  
<221> VARIANT  
<222> (1)...(164)  
<223> Xaa = Any Amino Acid
```

<400> 178
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp

1	5	10	15
Val Leu Ser	Ala His Cys Phe	Gln Asn Ser Tyr Thr	Ile Gly Leu
	20	25	30
Gly Leu His	Ser Leu Glu Ala Asp	Gln Glu Pro Gly Ser	Gln Met Val
	35	40	45
Glu Ala Ser	Leu Ser Val Arg His	Pro Glu Tyr Asn Arg	Pro Leu Leu
	50	55	60
Ala Asn Asp	Leu Met Leu Ile Lys	Leu Asp Glu Ser Val	Ser Glu Ser
65	70	75	80
Asp Thr Ile	Arg Ser Ile Ser Ile	Ala Ser Gln Cys Pro	Thr Ala Gly
	85	90	95
Asn Ser Cys	Leu Val Ser Gly Trp	Gly Leu Leu Ala Asn	Asp Ala Val
	100	105	110
Ile Ala Ile	Gln Ser Xaa Thr Val	Gly Gly Trp Glu Cys	Glu Lys Leu
	115	120	125
Ser Gln Pro	Trp Gln Gly Cys Thr	Ile Ser Ala Thr Ser	Ser Ala Arg
	130	135	140
Thr Ser Cys	Cys Ile Leu Thr Gly	Cys Ser Leu Leu Thr	Ala Ser
145	150	155	160
Pro Gly Thr	Leu		

<210> 179
 <211> 250
 <212> DNA
 <213> Homo sapien

<400> 179	
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct	60
ccagctgccc ccggccgggg gatgcgaggc tcggagcacc cttgcccggc tgtgattgct	120
gccaggcact gttcatctca gcttttctgt ccctttgctc ccggcaagcg cttctgctga	180
aagttcatat ctggagcctg atgtcttaac gaataaaggt cccatgctcc acccgaaaaa	240
aaaaaaaaaa	250

<210> 180
 <211> 202
 <212> DNA
 <213> Homo sapien

<400> 180	
actagtcacag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca	60
tcacccagac cccgcccctg cccgtgcccc acgctgctgc taacgacagt atgatgctta	120
ctctgctact cggaactat ttttatgtaa ttaatgtatg ctttcttggt tataaatgcc	180
tgatttaaaa aaaaaaaaaa aa	202

<210> 181
 <211> 558
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(558)
 <223> n = A,T,C or G


```

<400> 181
tccytthtkt naggtthtkk agacamccck agacctwaan ctgtgtcaca gacttcyngg      60
aatgtthtagg cagtgcctagt aatttcytcg taatgattct gttattactt tcctnattct      120
ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa      180
ggtagtgtga tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca      240
aaattatgca agttagtaat tactcagggt taactaaatt actttaatat gctgttgaac      300
ctactctgtt ccttggctag aaaaaattat aaacaggact ttgttagttt gggaagccaa      360
attgataata ttctatgttc taaaagtgtg gctatacata aattattaag aaatatggaw      420
ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggtag awgtwtgagt      480
aaaaycagtt ttggtwaata ygtwaatatg tcmtaaataa acaakgcttt gacttatttc      540
caaaaaaaaa aaaaaaaaaa                                     558

```

```

<210> 182
<211> 479
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(479)
<223> n = A,T,C or G

```

```

<400> 182
acagggwttk grggatgcta agsccccrga rwtlygtttga tccaaccctg gcttwttttc      60
agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcgmg gcacccctgg      120
cstcacacag astcccgagt agctgggact acaggcacac agtcaactgaa gcaggccctg      180
ttwgcaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca      240
ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcttag agtactttca      300
tactmttcta agtctctctc cagcctcact kkgagtcctm cytggggggt gataggaant      360
ntctcttggc tttctcaata aartctctat ycatctcatg tttaatttgg tacgcataara      420
awtgstgara aaattaaaaat gttctggtty macttttaaaa aaaaaaaaaa aaaaaaaaaa      479

```

```

<210> 183
<211> 384
<212> DNA
<213> Homo sapien

```

```

<400> 183
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactgggtgcc      60
agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgtc      120
ggtgccagcc tgaccgccac tctcacattt gggtctcttc ctggccttgg tggagctggt      180
gccagcacca gtggcagctc tgggtcctgt ggtttctctt acaagtgaga ttttagatat      240
tgttaatcct gccagtcttt ctcttcaagc caggggtgcat cctcagaaac ctactcaaca      300
cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctattt      360
gccatttcaa aaaaaaaaaa aaaa                                     384

```

```

<210> 184
<211> 496
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(496)

<223> n = A,T,C or G

<400> 184

accgaattgg	gaccgctggc	ttataagcga	tcattgtyynt	ccrgtatcac	ctcaacgagc	60
aggagatcg	agtctatacg	ctgaagaaat	ttgacccgat	gggacaacag	acctgctcag	120
cccatcctgc	tcggttctcc	ccagatgaca	aatactctsg	acaccgaatc	accatcaaga	180
aacgcttcaa	ggtgctcatg	acccagcaac	cgcgccctgt	cctctgaggg	tcccttaaac	240
tgatgtcttt	tctgccacct	gttacccttc	ggagactccg	taaccaaaact	cttcggactg	300
tgagccctga	tgcccttttg	ccagccatac	tctttggcat	ccagtctctc	gtggcgattg	360
attatgcttg	tgtgaggcaa	tcattggtgg	atcaccata	aagggaacac	atttgacttt	420
ttttctcat	attttaaatt	actacmagaw	tattwmagaw	waaatgawtt	gaaaaactst	480
taaaaaaaaa	aaaaaa					496

<210> 185

<211> 384

<212> DNA

<213> Homo sapien

<400> 185

gctggtagcc	tatggcgkkg	cccacggagg	ggctcctgag	gccacggrac	agtgacttcc	60
caagtatcyt	gcgscgctc	ttctaccgtc	cctacctgca	gatcttcggg	cagattcccc	120
aggaggacat	ggaegtggcc	ctcatggagc	acagcaactg	ytcgctcggg	cccggttct	180
gggcacaccc	tcctggggcc	caggcgggca	cctgcgtctc	ccagtatgcc	aactggctgg	240
tggtgctgct	cctcgtcatc	ttcctgctcg	tggccaacat	cctgctggtc	aacttgctca	300
ttgccatgtt	cagttacaca	ttcggcaaag	tacagggcaa	cagcgatctc	tactgggaag	360
gcgcagcgtt	accgctcat	ccgg				384

<210> 186

<211> 577

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(577)

<223> n = A,T,C or G

<400> 186

gagttagctc	ctccacaacc	ttgatgaggt	cgtctgcagt	ggcctctcgc	ttcataccgc	60
tnccatcgct	atactgtagg	tttgccacca	cytcctggca	tcttggggcg	gcntaatatt	120
ccaggaaact	ctcaatcaag	tcaccgtcga	tgaaacctgt	gggctgggtc	tgtcttcgcg	180
tcggtgtgaa	aggatctccc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgagtcga	ttctgcatgt	ccagcaggag	gttggtaccag	ctctctgaca	gtgaggtcac	300
cagccctatc	atgccgttga	mcgtgccgaa	garcaccgag	ccttggtgtg	gggkkgaaat	360
ctcaccacga	ttctgcatta	ccagagagcc	gtggcaaaaag	acattgacaa	actcgcccag	420
gtggaaaaag	amcamctcct	ggargtgctn	gccgctcctc	gtcmgttggt	ggcagcgctw	480
tccttttgac	acacaaacaa	gttaaaggca	ttttcagccc	ccagaaaant	gtcatcatcc	540
aagatntcgc	acagcactna	tccagttggg	attaaat			577

<210> 187

<211> 534

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = A,T,C or G

```

<400> 187
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgstg agaatycatw      60
actkggaaaa gmaacattaa agcctggaca ctggtattaa aattcacaat atgcaacact      120
ttaaacagtg tgtcaatctg ctcccyynac tttgtcatca ccagtctggg aakaagggtg      180
tgccctattc acacctgtta aaagggcgct aagcattttt gattcaacat cttttttttt      240
gacacaagtc cgaaaaaagc aaaagtaaac agttatyaat ttgttagcca attcactttc      300
ttcatgggac agagccatyt gatttaaaaa gcaaattgca taatattgag ctttygggagc      360
tgatatttga gcggaagagt agcctttcta cttcaccaga cacaactccc ttcatattg      420
ggatgttnac naaagtwatg tctctwacag atgggatgct tttgtggcaa ttctgttctg      480
aggatctccc agtttattta ccacttgcac aagaaggcgt tttcttctc aggc      534

```

<210> 188
 <211> 761
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(761)
 <223> n = A,T,C or G

```

<400> 188
agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatth tgtgtgcgtg      60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg      120
cctcttttgg atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct      180
ttgtcttctg tgtaaatggt actagagaaa acacctatnt tatgagtcaa tctagttngt      240
tttattcgac atgaaggaaa ttccagatn acaacactna caaactctcc ctkgackarg      300
ggggacaaaag aaaagcaaaa ctgamcataa raaacaatwa cctggtgaga arttgcataa      360
acagaaatwr ggtagtatat tgaarnacag catcattaaa rmgttwtktt wttctccctt      420
gcaaaaaaca gttaacngact tcccgttgag taatgccaaag ttgttttttt tatnataaaa      480
cttgcccttc attacatggt tnaaagtggg gtggtggggc aaaatattga aatgatggaa      540
ctgactgata aagctgtaca aataagcagt gtgcctaaca agcaacacag taatgttgac      600
atgcttaatt cacaaatgct aatttcatta taaatgtttg ctaaaataca ctttgaacta      660
tttttctgtn ttcccagagc tgagatntta gattttatgt agtatnaagt gaaaaantac      720
gaaaataata acattgaaga aaaaananaa aaanaaaaaa a      761

```

<210> 189
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

```

<400> 189
tttttttttt ttgccgatn ctactattht attgcaggan gtgggggtgt atgcaccgca      60

```

```

caccggggct atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca 120
aagccgcctg ctgcccttctc tgtctgtctc ctgggtgcagg cacatgggga gaccttcccc 180
aaggcagggg ccaccagtcg aggggtggga atacaggggg tgggangtgt gcataagaag 240
tgataggcac aggccaccog gtacagaccc ctcggtcctt gacaggtnga ttctgaccag 300
gtcattgtgc cctgcccagg cacagcgtn atctggaaaa gacagaatgc ttctcttttc 360
aaatttggct ngtcatngaa ngggcanttt tccaanttng gctnggtctt ggtacncttg 420
gttcggccca gctccncgtc caaaaantat tcaccnctt cnaattgct tgcngnccc 480
cc

```

```

<210> 190
<211> 471
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(471)
<223> n = A,T,C or G

```

```

<400> 190
tttttttttt ttttaaaaca gtttttcaca aaaaaattta ttagaagaat agtggttttg 60
aaaactctcg catccagtga gaactaccat acaccacatt acagctngga atgtnctcca 120
aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag 180
cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaaattt 240
taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt 300
tgaaaaattt catgtatgca atccaaccaa agaacttnat tggatgatcat gantnctcta 360
ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancaacnngt acaaaaaanaa 420
tctgtaattn anttcaacct ccgtacngaa aaatnttntt tatacactcc c 471

```

```

<210> 191
<211> 402
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(402)
<223> n = A,T,C or G

```

```

<400> 191
gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct 60
gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa 120
attcttcacc agtcacatct tctaggacct ttttggtatc agttagtata agctcttcca 180
cttcctttgt taagacttca tctggtaaag tcttaagttt tgtagaaagg aattyaattg 240
ctcgttctct aacaatgtcc tctccttgaa gtatttggct gaacaaccca cctaaagtcc 300
ctttgtgcat ccatttttaa tatacttaat agggcattgk tncactaggt taaattctgc 360
aagagtcacg tgtctgcaaa agttgcgtta gtatatctgc ca 402

```

```

<210> 192
<211> 601
<212> DNA
<213> Homo sapien

```

```

<220>

```

<221> misc_feature
 <222> (1)...(601)
 <223> n = A,T,C or G

<400> 192

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcytyttt	gaytaccggtg	tgccaagtgc	tgggtgattct	yaacacacyt	ccatcccgyt	180
cttttgtgga	aaaactggca	cttkcttgga	actagcarga	catcacttac	aaattcaccc	240
acgagacact	tgaaagggtg	aacaaagcga	ytcttgcaat	gctttttgtc	cctccggcac	300
cagttgtcaa	tactaaccgg	ctggtttgcc	tccatcacat	ttgtgatctg	tagctctgga	360
tacatctcct	gacagtactg	aagaacttct	tcttttgttt	caaaagcarg	tcttggtgcc	420
tgttgatca	ggttcccatt	tcccagtcyg	aatgttcaca	tgccatattt	wacttccac	480
aaaacattgc	gatttgaggc	tcagcaacag	caaatcctgt	tccggcattg	gctgcaagag	540
cctcgatgta	gccggccagc	gccaaggcag	gcgccgtgag	ccccaccagc	agcagaagca	600
g						601

<210> 193
 <211> 608
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(608)
 <223> n = A,T,C or G

<400> 193

atacagccca	natcccacca	cgaagatgcg	cttgttgact	gagaacctga	tgcggtcact	60
ggtcccgtg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgactcytt	120
cccaacgcag	gcagmagcgg	gscgggtcaa	tgaactccay	tcgtggcttg	gggtkgacgg	180
tkaagtgcag	gaagagggtg	accacctcgc	ggtccaccag	gatgcccag	tgtgcgggac	240
ctgcagcgaa	actcctcgat	ggtcatgagc	gggaagcgaa	tgaggcccag	ggccttgccc	300
agaaccttcc	gcctgttctc	tggcgtcacc	tgcagctgct	gccgctgaca	ctcggcctcg	360
gaccagcgga	caaacggcrt	tgaacagccg	cacctcacgg	atgcccagtg	tgtcgcgctc	420
caggammgsc	accagcgtgt	ccaggtcaat	gtcgggtgaag	ccctccgcgg	gtratggcgt	480
ctgcagtgtt	tttgtcgatg	ttctccaggc	acaggtgggc	cagctgcggt	tcatcgaaga	540
gtcgcgcctg	cgtgagcagc	atgaaggcgt	tgtcggctcg	cagttcttct	tcaggaaactc	600
cacgcaat						608

<210> 194
 <211> 392
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194

gaacggctgg	accttgccctc	gcatttgtgt	tgctggcagg	gaataccttg	gcaagcagyt	60
ccagtcggag	cagccccaga	ccgctgccgc	ccgaagctaa	gcctgcctct	ggccttcccc	120
tccgcctcaa	tgcagaacca	gtagtgggag	cactgtgttt	agagttaaga	gtgaacactg	180

```

tttgatttta cttgggaatt tcctctgtta tatagctttt cccaatgcta atttccaaac 240
aacaacaaca aaataacatg tttgcctggt aagttgtata aaagtaggtg attctgtatt 300
taaagaaaat attactgtta catatactgc ttgcaatttc tgtattttatt gktnctstgg 360
aaataaatat agttattaaa ggttgtcant cc 392

```

```

<210> 195
<211> 502
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

```

```

<400> 195
ccsttkgagg ggtkaggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg 60
ccgagctgag gcagatgttc ccacagtgc cccagagcc stgggstata gtytctgacc 120
cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc 180
aagggaaagg cccattccgg ggstgttccc cgaggaggaa gggaaggggc tctgtgtgcc 240
ccccasgagg aagaggccct gagtcctggg atcagacacc ccttcacgtg tatccccaca 300
caaatgcaag ctcaccaagg tccccctctc gtcccccttc stacaccctg amcggccact 360
gscscacacc caccagagc acgccaccgc ccatggggar tgtgctcaag gartcgcngg 420
gcarcgtgga catctngtcc cagaaggggg cagaatctcc aatagangga ctgarcmstt 480
gctnanaaaa aaaaanaaaa aa 502

```

```

<210> 196
<211> 665
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(665)
<223> n = A,T,C or G

```

```

<400> 196
ggttacttgg ttctattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120
wagctgtttk gagttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga 180
actwatttat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkatc 240
aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt 300
attaatcggc aaaatgtgga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact 360
tcacttggtt attttattgt aaatgartta caaaattctt aatttaagar aatggtatgt 420
watatttatt tcattaattt ctttcctkgt ttacgtwaat tttgaaaaga wtgcatgatt 480
tcttgacaga aatcgatctt gatgctgtgg aagtagtttg acccacatcc ctatgagttt 540
ttcttagaat gtataaagggt tgtageccat cnaacttcaa agaaaaaaat gaccacatac 600
tttgcaatca ggctgaaatg tggcatgctn ttctaattcc aactttataa actagcaaan 660
aagt 665

```

```

<210> 197
<211> 492
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

<400> 197
 tttntttttt ttttttttgc aggaaggatt ccattttattg tggatgcatt ttcacaatat 60
 atgtttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120
 aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgtana gatnacagag 180
 aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240
 caaaattcta ccctgaaaact tactccatcc aaatattgga ataanagtca gcagtgatac 300
 attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360
 tgttcaaaaag tacaacnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420
 catttcactc ccatcacggg agtcaatgct acctggggaca cttgtatttt gttcatnctg 480
 ancntggctt aa 492

<210> 198
 <211> 478
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 198
 tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60
 tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120
 tgagtatatt ttgaaaagga caagtttaaa gtanacncat attgccganc atancacatt 180
 tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaanaaat 240
 nataatgtc aatcngattt aagatacaaa acagatccta tgggtacatan catcntgtag 300
 gagttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaaga gatggccgta 360
 agcatttctag tacctctact ccatgggttaa gaatcgtaaca cttatgttta catatgtnc 420
 gggtaagaat tgtgttaagt naanttatgg agaggtccan gagaaaaatt tgatncaa 478

<210> 199
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 199
 agtgacttgt cctccaacaa aacccttga tcaagtttgt ggcaactgaca atcagacct 60
 tgctagtcc tgctcatctat tcgctactaa atgcagactg gagggggacca aaaaggggca 120
 tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180
 agtgattcag tttcctctac ggatgagaga ctggctcaag aatatcctca tgcagcttta 240
 tgaagccnac tctgaacacg ctggttatct nagatgagaa ncagagaaat aaagtcnaga 300
 aaatttacct ggangaaaag aggctttngg ctggggacca tcccattgaa ccttctctta 360

```

anggacttta agaanaaaact accacatgtn tgtngtatcc tgggtgccngg ccgttttantg      420
aacntngacn ncacccttnt ggaatanant cttgacngcn tcctgaactt gctcctctgc      480
ga                                                                           482

```

```

<210> 200
<211> 270
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

```

```

<400> 200
cggccgcaag tgcaactcca gctggggccg tgcggacgaa gattctgcca gcagttggtc      60
cgactgcgac gacggcgggcg gcgacagtcg caggtgcagc gcgggcccct ggggtcctgc      120
aaggctgagc tgacgccgca gaggtcgtgt cacgtcccac gaccttgacg ccgtcgggga      180
cagccggaac agagcccggg gaangcggga ggcctcgggg agcccctcgg gaagggcggc      240
ccgagagata cgcaggtgca ggtggccgcc                                     270

```

```

<210> 201
<211> 419
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(419)
<223> n = A,T,C or G

```

```

<400> 201
tttttttttt ttttgaatc tactgcgagc acagcaggtc agcaacaagt ttattttgca      60
gctagcaagg taacagggtg gggcatgggt acatgttcag gtcaacttcc tttgtcgtgg      120
ttgattgggt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca      180
tgagtggttg gcaccctccc tgtagaacct gggtacnaaa gcttggggca gttcacctgg      240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatatc ttttagagag      300
tccactgtnt ctggaggagg attagggttt cttgccanaa tccaancaa atccacntga      360
aaaagttgga tgatncangt acngaatacc ganggcatan ttctcatant cggtggccca      419

```

```

<210> 202
<211> 509
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(509)
<223> n = A,T,C or G

```

```

<400> 202
ttnttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt      60
tggcacttaa tccattttta tttcaaaatg tctacaaant ttnaatncnc cattatacng      120
gtnattttnc aaaatctaaa nnttattcaa atntnagcca aantccttac ncaaantnaa      180

```


tacnncnaaa	aatcaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaaaa	240
aatatatacg	gctgggtgtt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatacttc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggcccaaca	480
caatggnaat	nccnccnnc	tggtactagt				509

<210> 203
 <211> 583
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(583)
 <223> n = A,T,C or G

<400> 203						
tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttgggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgcttaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
agggaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tatttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaag	aaggcttaga	tccttttatg	480
tccatttttag	tcactaaacg	atatcnaaag	tgccagaatg	caaaagggtt	gtgaacattt	540
attcaaaagc	taatataaga	tatttcacat	actcatcttt	ctg		583

<210> 204
 <211> 589
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 204						
ttttttttnt	tttttttttt	ttttttntct	ttcttttttt	ttganaatga	ggatcgagtt	60
tttcactctc	tagatagggc	atgaagaaaa	ctcatctttc	cagcttttaa	ataacaatca	120
aatctcttat	gctatatcat	attttaagtt	aaactaatga	gtcactggct	tatcttctcc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagagggtt	ttcttctcta	tttacacata	tattttccatg	tgaatttgta	tcaaaccttt	300
attttcatgc	aaactagaaa	ataatgtntt	cttttgcata	agagaagaga	acaatatnag	360
cattacaaaa	ctgctcaaat	tgtttggtta	gnntatccat	tataattagt	tnggcaggag	420
ctaatacaaa	tcacattttac	ngacnagcaa	taataaaact	gaagtaccag	ttaaatatcc	480
aaaataatta	aaggaacatt	tttagcctgg	gtataattag	ctaattcact	ttacaagcat	540
ttattnagaa	tgaattcaca	tggtattatt	ccntagccca	acacaatgg		589

<210> 205
 <211> 545
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(545)

<223> n = A,T,C or G

<400> 205

ttttntttt	ttttttcagt	aataatcaga	acaatattta	tttttatatt	taaaattcat	60
agaaaagtc	cttacattta	ataaaagttt	gtttctcaa	gtgatcagag	gaattagata	120
tngtcttgaa	caccaatatt	aatttgagga	aaatacacca	aaatacatta	agtaaattat	180
ttaagatcat	agagcttgta	agtgaaaaga	taaaatttga	cctcagaaac	tctgagcatt	240
aaaaatccac	tattagcaaa	taaattacta	tggacttctt	gctttaattt	tgtgatgaat	300
atggggtgtc	actggtaaac	caacacattc	tgaaggatac	attacttagt	gatagattct	360
tatgtacttt	gctanatnac	gtggatatga	gttgacaagt	ttctctttct	tcaatctttt	420
aaggggcnga	ngaaatgagg	aagaaaagaa	aaggattacg	catactgttc	tttctatngg	480
aaggattaga	tatgtttcct	ttgccaatat	taaaaaata	ataatgttta	ctactagtga	540
aacc						545

<210> 206

<211> 487

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(487)

<223> n = A,T,C or G

<400> 206

ttttttttt	ttttttagtc	aagtttctna	tttttattat	aattaaagtc	ttggtcattt	60
catttattag	ctctgcaact	tacatattta	aattaaagaa	acgttnttag	acaactgtna	120
caatttataa	atgtaagggtg	ccattattga	gtanatatat	tcctccaaga	gtggatgtgt	180
cccttctccc	accaactaat	gaancagcaa	cattagttta	attttattag	tagatnatac	240
actgctgcaa	acgctaattc	tcttctccat	ccccatgtng	atattgtgta	tatgtgtgag	300
ttggtnagaa	tgcacanca	atctnacaat	caacagcaag	atgaagctag	gcntgggctt	360
tcggtgaaaa	tagactgtgt	ctgtctgaat	caaagtatct	gacctatcct	cgggtggcaag	420
aactcttcga	accgcttcct	caaaggcngc	tgccacattt	gtggcntctn	ttgcacttgt	480
ttcaaaa						487

<210> 207

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 207

tgaattggct	aaaagactgc	atttttanaa	ctagcaactc	ttattttctt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttatag	gaccttctgg	tggttctgct	gttacntttg	aantctgaca	atccttgana	180

```

atctttgcat gcagaggagg taaaaggat tggattttca cagaggaana acacagcgca      240
gaaatgaagg ggccaggctt actgagcttg tccactggag ggctcatggg tgggacatgg      300
aaaagaaggc agcctaggcc ctggggagcc ca                                     332

```

```

<210> 208
<211> 524
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G

```

```

<400> 208
agggcggtggt gcggagggcg ttactgtttt gtctcagtaa caataaatat aaaaagactg      60
gttgtgttcc ggccccatcc aaccacgaag ttgattttct ttgtgtgcag agtgactgat      120
tttaaaggac atggagcttg tcacaatgtc acaatgtcac agtgtgaagg gcacactcac      180
tcccgcgtga ttcacattta gcaaccaaca atagctcatg agtccatact tgtaaatact      240
tttggcagaa tacttnttga aacttgcaga tgataactaa gatccaagat atttcccaaa      300
gtaaatagaa gtgggtcata atattaatta cctgttcaca tcagcttcca ttacaagtc      360
atgagcccag acactgacat caaactaagc ccacttagac tcttcaccac cagtctgtcc      420
tgtcatcaga caggaggtg tcaccttgac caaattctca ccagtcaatc atctatccaa      480
aaaccattac ctgatccact tccggtaatg caccaccttg gtga                                     524

```

```

<210> 209
<211> 159
<212> DNA
<213> Homo sapien

```

```

<400> 209
gggtgaggaa atccagagtt gccatggaga aaattccagt gtcagcattc ttgtctccttg      60
tggccctctc ctacactctg gccagagata ccacagtcaa acctggagcc aaaaaggaca      120
caaaggactc tcgacccaaa ctgcccaga ccctctcca                                     159

```

```

<210> 210
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

```

```

<400> 210
actccctggc agacaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc      60
actgaatttc tttccacttg gactattaca tgccanttga gggactaatg gaaaaacgta      120
tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat      180
ttgcagggtg naaatgggan ggctggtttg ttanatgaac agggacatag gaggtaggca      240
ccaggtgct aaatca                                     256

```

```

<210> 211
<211> 264

```

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 211
 acattgtttt tttagagataa agcatttgaga gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacacat ctttggttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
 ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga 240
 aaaaaaggag caaatgagaa gcct 264

<210> 212
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 212
 acccaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa 60
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180
 ttnaatttca ttcccatgga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240
 ccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca 300
 ttttttttct ctttattcct ttgtcaga 328

<210> 213
 <211> 250
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 213
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcc aagganatat acattttcaat tctccaaact tcttctcat tccaagagtt 180
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct 240
 tctcatcgg 264

<210> 214
 <211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

```

<400> 214
accagaatc caatgctgaa tatttggett cattattccc agattctttg attgtcaaag      60
gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg      120
tttatatatg cagcaacaat attcaagcgc gacaacaggt tattgaactt gcccgccagt      180
tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac      240
ccctacgact ctttactctc tggagagggc cagtgggtgg agctataagc ttggccacat      300
ttttttttcc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag      360
agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt      420
actttgctct ccctaataata cctc                                           444

```

<210> 215
 <211> 366
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

```

<400> 215
acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt      60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaaagta agccaaggct      120
cattatgcca aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt      180
ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct      240
tctcatcggg aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa      300
tccaagctgt tttctacact gtaaccaggt ttccaaccaa ggtggaaatc tcctatactt      360
ggtgcc                                           366

```

<210> 216
 <211> 260
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

```

<400> 216
ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc      60
caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggctnttnc atttttttat      120
taataaaaaa tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa      180
atcaaaaatt tcctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat      240
aattcttctt tccctccttt                                           260

```

<210> 217
 <211> 262

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 217
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
 tcttgccat aattttctat tttaataagg aaatagcaaa ttgggggtgg gggaatgtag 120
 ggcattctac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
 atatccttca tgcttgtaaa gt 262

<210> 218
 <211> 205
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(205)
 <223> n = A,T,C or G

<400> 218
 accaaggtgg tgcattaccg gaantggatc aangacacca tcgtggccaa cccctgagca 60
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120
 aggctcccc agttctactg acctttgtcc ttangntna ngtccagggt tgctaggaaa 180
 anaaatcagc agacacaggt gtaaa 205

<210> 219
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 219
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
 <211> 93
 <212> DNA
 <213> Homo sapien

<400> 220
 actagccagc acaaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60
 aaataagcat ttagtgctca gtcctactg agt 93

<210> 221
 <211> 167
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(167)
 <223> n = A,T,C or G

<400> 221
 actangtgca ggtgcgcaca aatatttgct gatattccct tcattcttga ttccatgagg 60
 tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc 120
 cccccactac cttccctgac gctcccccana aatcacccaa cctctgt 167

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcggtgt ggcggggggt gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gttcttcacc tgtcccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtagggt tgcttttaca tatactctggc atatttgagt 300
 ctcgtatcaa aacaatagat tggtaaagggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggttaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
 ttaaaatgtc tgtgccaaaa ttttgtattt tatttgaga cttcttatca aaagtaatgc 180
 tgccaaagga agtctaagga attagtagtg ttcccmcac ttgtttggag tgtgctattc 240
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttggtggg ggaaanagtt 300
 ataggaccac agtcttcact tctgatactt gttaaattaat cttttattgc acttgttttg 360
 accattaagc tatatgttta aaa 383

<210> 224
 <211> 320
 <212> DNA
 <213> Homo sapien

<400> 224
 cccctgaagg cttcttggtta gaaaatagta cagttacaac caataggaac aacaaaaaga 60
 aaaagtttgt gacattgtag tagggagtgt gtaccctta ctcccatca aaaaaaaaaat 120
 ggatacatgg ttaaaggata raagggaat attttatcat atgttctaaa agagaaggaa 180
 gagaaaatac tactttctcr aaatggaagc ccttaaagggt gctttgatac tgaaggacac 240
 aaatgtggcc gtccatcctc ctttaragtt gcatgacttg gacacggtaa ctgttgagct 300
 tttaractcm gcattgtgac 320

<210> 225
 <211> 1214
 <212> DNA
 <213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcggcac	tggatcatgga	aaacgaattg	60
ttctgctcgg	gcgtcctggg	gcateccgag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggtgg	aggccagcct	ctccgtacgg	caccagaggt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttggacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggctggggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtggtgtct	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatggt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtcttttcgga	aaagcccgt	gtggccaagt	tggcgtgcc	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatata	tgttcccagc	ccctcctccc	tcaggcccag	gagtcagggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccccctct	ccctcagacc	caggagtcca	840
gacccccag	ccctcctccc	ctcagaccca	ggagtccagc	ccctcctccc	tcagaccag	900
gagtcagac	ccccagcccc	ctcctccctc	agaccaggg	gtccaggccc	ccaacccctc	960
ctcctcaga	ctcagaggtc	caagccccca	acccctcctt	ccccagacc	agaggtccag	1020
gtcccagccc	ctcctccctc	agaccagcgg	gtccaatgcc	acctagactc	tccctgtaca	1080
cagtgcctcc	ttgtggcag	ttgacccaac	cttaccagtt	ggtttttcat	tttttgtccc	1140
tttcccttag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226
 <211> 119
 <212> DNA
 <213> Homo sapien

<400> 226

accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227
 <211> 818
 <212> DNA
 <213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggtctctcc	ccagccctga	60
tttttgctac	atatgggggc	ctttttcatt	ctttgcaaaa	acactgggtt	ttctgagaac	120
acggacgggt	cttagcacia	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aaggtgggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgtcccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttcct	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggctcgt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600

gacaggctct	gccctcaagc	cggtcgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

<210> 228
 <211> 744
 <212> DNA
 <213> Homo sapien

<400> 228						
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gtcatgacgt	ttgacatacc	tttggaacga	gcctcctcct	tggaagatgg	aagaccgtgt	120
tcgtggccga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtc	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcctg	ccggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctgggtga	cagtgacccg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttgggggttg	600
ttcttttctg	taatgttctt	ctgtgttgtc	agctgtcttc	atttctctgg	ctaagcagca	660
ttggggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttcactctg	aagtagctgg	tggt				744

<210> 229
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 229						
cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcattgtgaac	60
cattacacat	cgaaataaaa	gaaaggtggc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctattttttc	acctgcagag	gatccagctc	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 230						
cagcagaaca	aatacaaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcttggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

<210> 231
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 231
gcaagcacgc tggcaaatct ctgtcaggtc agctccagag aagccattag tcatttttagc 60
caggaactcc aagtccacat ccttggcaac tggggacttg cgcaggttag ccttgaggat 120
ggcaacacgg gactttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180
tctgaggatg gcaggatcaa tgatgtcagg ccggttggtg ccgccaatga tgaacacatt 240
tttttttgtg gacatgccat ccattttctgt caggatctgg ttgatgactc ggtcagcagc 300
c 301

<210> 232
<211> 301
<212> DNA
<213> Homo sapien

<400> 232
agtaggtatt tcgtgagaag ttcaacacca aaactggaac atagtctctcc ttcaagtgtt 60
ggcgacagcg gggcttcctg attctggaat ataactttgt gttaaattaac agccacctat 120
agaagagtcc atctgtctgtg aaggagagac agagaactct gggttccgtc gtcctgtcca 180
cgtgctgtac caagtgtgg tgccagcctg ttacctgttc tcaactgaaa tctggctaata 240
gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300
g 301

<210> 233
<211> 301
<212> DNA
<213> Homo sapien

<400> 233
atgactgact tccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60
atgctaaggc cccagagatc gtttgatcca accctcttat ttccagaggg gaaaatgggg 120
cctagaagtt acagagcatc tagctgggtgc gctggcacc cctggcctcac acagactccc 180
gagtagctgg gactacaggc acacagtcac tgaagcaggc cctggttagca attctatgcg 240
tacaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300
c 301

<210> 234
<211> 301
<212> DNA
<213> Homo sapien

<400> 234
aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60
cattttattc atcatgatgc tttcttttgt ttcttctttt cgttttcttc tttttctttt 120
tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180
cgctcatga cagcaagttc aatgtttttg ccacctgact gaaccacttc caggagtgcc 240
ttgatcacca gcttaatggg cagatcatct gcttcaatgg ctctgctcagt atagttcttc 300
t 301

<210> 235
<211> 283
<212> DNA
<213> Homo sapien

<400> 235

tggggctgtg	catcaggcgg	gtttgagaaa	tattcaattc	tcagcagaag	ccagaatttg	60
aattccctca	tcttttaggg	aatcatttac	caggtttgga	gaggattcag	acagctcagg	120
tgctttcact	aatgtctctg	aactttctgtc	cctctttgtt	catggatagt	ccaataaata	180
atgttatctt	tgaactgatg	ctcataggag	agaatataag	aactctgagt	gatatcaaca	240
ttagggattc	aaagaaatat	tagatttaag	ctcacactgg	tca		283

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggg	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccctaa	cccacatgca	atcttcttca	ccagaagagg	120
tcggagcagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tggttagacg	gcttcatgag	tacagtgtac	tgtgggtatcg	taatctggac	ttgggttgta	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt	ggtgggtggac	gtggcggttg	togtgggtgcc	ttttttggtg	cccgtcacaa	60
actcaatttt	tgttcgctcc	tttttgccct	tttccaattt	gtccatctca	attttctggg	120
ccttggtctaa	tgctcatag	taggagtcct	cagaccagcc	atggggatca	aacatatcct	180
ttgggtagtt	ggtgccaaagc	togtcaatgg	cacagaatgg	atcagcttct	cgtaaactcta	240
gggttccgaa	attctttctt	cctttggata	atgtagtcca	tatccattcc	ctcctttatc	300
t						301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcagggtt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacgggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtgc	aggctctcca	gggttcccc	gcccatcaat	cattttctgc	180
acccccctgc	tgggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggtctgt	tcttcacagt	aggaggtgga	agggatgact	aatttcttta	300
t						301

<210> 239

<211> 239

<212> DNA

<213> Homo sapien

<400> 239

ataagcagct	agggaattct	ttatttagta	atgtcctaac	ataaaagtcc	acataactgc	60
ttctgtcaaa	ccatgatact	gagctttgtg	acaaccgaga	aataactaag	agaaggcaaa	120
cataatacct	tagagatcaa	gaaacattta	cacagttcaa	ctgttttaaaa	atagctcaac	180

attcagccag tgagtagagt gtgaatgccca gcatacacag tatacaggtc cttcaggga 239

<210> 240
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 240
 ggtcctaattg aagcagcagc ttccacattt taacgcaggt ttacgggtgat actgtccttt 60
 gggatctgcc ctccagtga accttttaag gaagaagtgg gcccaagcta agttccacat 120
 gctgggtgag ccagatgact tctgttcctt ggtcactttc ttcaatgggg cgaatggggg 180
 ctgccagggtt tttaaaatca tgcttcatct tgaagcacac ggtcacttca cctcctcac 240
 gctgtgggtg tactttgatg aaaataccca ctttgttggc ctttctgaag ctataatgtc 300

<210> 241
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 241
 gaggtctggt gctgaggtct ctgggctagg aagaggagtt ctgtggagct ggaagccaga 60
 cctcttttga ggaaactcca gcagctatgt tgggtgtctct gagggaatgc aacaaggctg 120
 ctctccatg tattggaaaa ctgcaaaactg gactcaactg gaaggaagtg ctgctgccag 180
 tgtgaagaac cagcctgagg tgacagaaac ggaagcaaac aggaacagcc agtcttttct 240
 tctcctcct gtcatacagg ctctctcaag catcctttgt tgtcaggggc ctaaaaggga 300
 g 301

<210> 242
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 242
 ccgaggctcct gggatgcaac caatcactct gtttcacgtg actttttatca ccatacaatt 60
 tgtggcattt cctcattttc tacattgtag aatcaagagt gtaaataaat gtatatcgat 120
 gtcttcaaga atatatcatt cctttttcac tagaacccat tcaaaatata agtcaagaat 180
 cttaatatca acaaataat caagcaaact ggaaggcaga ataactacca taatttagta 240
 taagtaccca aagttttata aatcaaaagc cctaatagata accattttta gaattcaatc 300
 a 301

<210> 243
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 243
 aggtaagtcc cagtttgaag ctcaaaagat ctggtatgag catagggtca tcgacgacat 60
 ggtggcccaa gctatgaaat cagagggagg cttcatcttg gcctgtaaaa actatgatgg 120
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctcgcatga tgaccagcgt 180
 tctggtttgt ccagatggca agacagtaga agcagaggct gcccacggga ctgtaacccg 240
 tcaactaccg atgttccaga aaggacagga gacgtccacc aatcccattg cttccatttt 300
 t 301

<210> 244

<211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120
 ccagggacct tggaaacagt tgacactgta aggtgcttgc tccccaaagac acatccctaaa 180
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ccttcttatt tatgtgaaca 240
 actgtttgtc ttttgtgtat cttttttaaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atggttagaaa agaaagaggt 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaagacc taattttctaa agcaattctt tataattttac aaagttttaa 300
 g 301

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaac aaggatatgt ttacactacc aatgcagaaa 300
 c 301

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcctttg gcagggtcga tggatcagag ctcaaactgg agggaaaggc atttcgggta 60
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgttt cccccacgct 120
 gtgtcctgtg ttcagggtcg acacacaatc ctcatgggaa caggatcacc catgctgtgc 180
 ccttgatgat caaggttggg gcttaagtgg attaaggag gcaagttctg ggttccttgc 240
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300
 a 301

<210> 248
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 248
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcaact 60
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt 120
 acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180
 gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240
 ctaatgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300
 c 301

<210> 249
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 249
 gtccagagga agcaccttgg gctgaactag gcttgccctg ctgtgaactt gcacttggag 60
 ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgccc 120
 ccagggagac acagcagtga ctacagagctg gtgcgacact gtgcctccct cctcacggcc 180
 catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240
 actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300
 a 301

<210> 250
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 250
 ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacactttctc 60
 cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120
 cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180
 ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240
 caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300
 a 301

<210> 251
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 251
 gccgaggtcc tacatttggc ccagtttccc cctgcatact ctccaggggc cctgcctcat 60
 agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120
 ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180
 cattgggatc aatgaaaagc ttcaagaaat cttcaggtc actctcttga aggcccgga 240
 cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatcct 300
 c 301

<210> 252
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 252

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gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttcctca    60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata    120
tcattccttt ttactagga acccattcaa aatataagtc aagaatctta atatcaacaa    180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt    240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc    300
a                                                                    301

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<210> 253
<211> 301
<212> DNA
<213> Homo sapien

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<400> 253
ttccctaaga agatgttatt ttgttggggt ttgttcccc tccatctcga ttctcgtacc    60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcccttagct    120
tggctctgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg    180
gatttttttt cttagagaac cacaaaacat aaaaggagca agtcggactg aatacctgtt    240
tccatagtgc ccacagggtg ttcttcacat tttctccata ggaaaatgct ttttcccaag    300
g                                                                    301

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<210> 254
<211> 301
<212> DNA
<213> Homo sapien

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```

<400> 254
cgctgcgcct ttcccttggg ggaggggcaa ggccagaggg ggtccaagtg cagcacgagg    60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaaatcccc    120
ccaaatctct tcatttacc ctggtggact cctgactgta gaattttttg gttgaaacaa    180
gaaaaaaata agcttttggg cttttcaagg ttgcttaaca ggtactgaaa gactggcctc    240
acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc    300
t                                                                    301

```

```

<210> 255
<211> 302
<212> DNA
<213> Homo sapien

```

```

<400> 255
agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa    60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggtat    120
tgggattttg ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg    180
aggaaaaagg actggagggtg gaatctttat aaaaaacaag agtgattgag gcagattgta    240
aacattatta aaaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac    300
aa                                                                    302

```

```

<210> 256
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)

```

<223> n = A,T,C or G

<400> 256

```
gttccagaaa acattgaagg tggcttccca aagtctaact agggataccc cctctagcct    60
aggaccctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc    120
acccccaaaa gcctggacac cttagacaca cagttatgac caggacagac tcctctctat    180
aggcaaatag ctgctggcaa actggcatta cctggtttgt ggggatgggg gggcaagtgt    240
gtggcctctc ggcttgggta gcaagaacat tcagggtagg cctaagttan tcgtgttagt    300
t                                                                    301
```

<210> 257

<211> 301

<212> DNA

<213> Homo sapien

<400> 257

```
gttgtggagg aactctggct tgctcattaa gtccactga ttttactat cccctgaatt    60
tccccactta tttttgtctt tcaactatcg aggccttaga agaggtctac ctgcctccag    120
tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat    180
gtcacattac tcccttcagt gatctcttgt agaagtgcc atccctgaat gccaccaaga    240
tcttaatctt cacatcttta atcttatctc tttagactcct ctttacaccg gagaaggctc    300
c                                                                    301
```

<210> 258

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 258

```
cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc    60
agggggcccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc    120
cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg    180
atgtctcggg cattgagget gtcaataana cgctgatccc ctgctgtatg gtggtgtcat    240
tggtgatccc tgggagcgcc ggtggagtaa cgttggtcca tggaaagcag cgcccacaac    300
t                                                                    301
```

<210> 259

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 259

```
tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg    60
gtgtcctgaa gtgatttggg cccctgaggg cagacacctc agtaggaatc ccagtgggaa    120
```



```

gcaaagccat aaggaagccc aggattcctt gtgatcagga agtggggccag gaaggctctgt 180
tccagctcac atctcatctg catgcagcac ggaccggatg cgcccaactgg gtcttggett 240
ccctcccata ttctcaagca gtgtccttgt tgagccattt gcatccttgg ctccagggtgg 300
c 301

```

```

<210> 260
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 260
ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaaatt aagcaatggt 60
aagggtgtctt aacttgaaaa agattaggag tcaactggttt acaagttata attgaatgaa 120
agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaacaa caggattaac 180
tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttataaac agactgattc 240
actgagacat cagtacctgc ccgggcggcc gctcgagccg aattctgcag atatccatca 300
c 301

```

```

<210> 261
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 261
aaatatctga gcaaattcctg taactaatgt gtctccataa aaggctttga actcagtga 60
tctgtttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggtt 120
agcaccaact attccatata attcatcagc aggaaataaa ggctcttcag aagggttcaat 180
ggtgacatcc aattttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240
ggcatgatga tcatccaaag ccagtggtc acttactcca gactttctgc aatgaagatc 300
a 301

```

```

<210> 262
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 262
gaggagagcc tgttacagca tttgtaagca cagaatactc caggagtatt tgtaattgtc 60
tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatcc ctgagtcacc 120
cctagacttc ctaaaccaga tcctctgggg ctggaacctg gcactctgca tttgtaatga 180
gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtgcc 240
catcattacc ccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300
c 301

```

```

<210> 263
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

<400> 263
 ttttagcttgt ggtaaatgac tcacaaaact gattttaaaa tcaagttaat gtgaattttg 60
 aaaattacta cttaatccta attcacaata acaatggcat taaggtttga cttgagttgg 120
 ttcttagtat tatttatggg aaataggctc ttaccacttg caaataactg gccacatcat 180
 taatgactga cttcccagta aggctctcta aggggtaagt angaggatcc acaggatttg 240
 agatgctaag gccccagaga tcgtttgatc caaccctctt attttcagag gggaaaatgg 300
 g 301

<210> 264
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 264
 aaagacgtta aaccactcta ctaccacttg tggaactctc aaagggtaaa tgacaaascc 60
 aatgaatgac tctaaaaaca atattttacat ttaatggttt gtagacaata aaaaaacaag 120
 gtggatagat ctagaattgt aacattttta gaaaaccata scatttgaca gatgagaaaag 180
 ctcaattata gatgcaaagt tataactaaa ctactatagt agtaaagaaa tacatttcac 240
 acccttcata taaattcact atcttggcct gaggcactcc ataaaatgta tcacgtgcat 300
 a 301

<210> 265
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 265
 tgcccaagtt atgtgtaagt gtatccgcac ccagaggtaa aactacactg tcatctttgt 60
 cttcttgtga cgcagtattt cttctctggg gagaagccgg gaagtcttct cctggctcta 120
 catattcttg gaagtctcta atcaactttt gttccatttg ttccatttct tcaggagggga 180
 ttttcagttt gtcaacatgt tctctaacaa cacttgccca tttctgtaaa gaatccaaag 240
 cagtccaagg ctttgacatg tcaacaacca gcataactag agtatccttc agagatacgg 300
 c 301

<210> 266
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 266
 taccgtctgc ctttctctcc atccaggcca tctgcgaatc tacatgggtc ctccatttcg 60
 acaccagatc actctttcct ctaccacag gcttgctatg agcaagagac acaacctcct 120
 ctcttctgtg ttccagcttc ttttctgtt cttcccaccc ctttaagttct attcctgggg 180
 atagagacac caatacccat aacctctctc ctaagcctcc ttataaccba ggggtgcacag 240
 cacagactcc tgacaactgg taaggccaat gaactgggag ctcacagctg gctgtgcctg 300
 a 301

<210> 267
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 267
 aaagagcaca ggccagctca gcctgccctg gccatctaga ctcagcctgg ctccatgggg 60

```

gtttctcagtg ctgagtcocat ccaggaaaag ctcacctaga ctttctgagg ctgaatcttc 120
atcctcacag gcagcttctg agagcctgat attcctagcc ttgatggctt ggagtaaagc 180
ctcattctga ttctctctct tcttttcttt caagttggtt ttcttcacat ccctctgttc 240
aattcgcttc agcttgtctg ctttagccct catttccaga agcttcttct ctttggcatc 300
t 301

```

```

<210> 268
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 268
aatgtctcac tcaactactt cccagcctac cgtggcctaa ttctgggagt tttcttctta 60
gatcttggga gagctgggtc ttctaaggag aaggaggaag gacagatgta actttggatc 120
tcgaagagga agtctaattg aagtaattag tcaacgggtc ttgttttagac tcttgaata 180
tgctgggtgg ctcagtgagc ccttttggag aaagcaagta ttattcttaa ggagtaacca 240
cttccattg ttctactttc taccatcatc aattgtatat tatgtattct ttggagaact 300
a 301

```

```

<210> 269
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 269
taacaatata cactagctat ctttttaact gtccatcatt agcaccaatg aagattcaat 60
aaaattacct ttattcacac atctcaaaac aattctgcaa attcttagtg aagtttaact 120
atagtcacag accttaaata ttacattgtt tttctatgtc tactgaaaat aagttcacta 180
cttttctgga tattctttac aaaatcttat taaaattcct ggtattatca cccccaatta 240
tacagtagca caaccacctt atgtagtttt tacatgatag ctctgtagaa gtttcacatc 300
t 301

```

```

<210> 270
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 270
cattgaagag cttttgcgaa acatcagaac acaagtgcct ataaaattaa ttaagcctta 60
cacaagaata catattcctt ttatttctaa ggagttaaac atagatgtag ctgatgtgga 120
gagcttgctg gtgcagtgca tattggataa cactattcat ggccgaattg atcaagtcaa 180
ccaactcctt gaactggatc atcagaagaa ggggtggtgc cgatatactg cactagataa 240
tggaaccaac aactaaattc tctcaccagg ctgtatcagt aaactggctt aacagaaaac 300
a 301

```

```

<210> 271
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

<400> 271
 aaaaggttct cataagatta acaattttaa taaatatttg atagaacatt ctttctcatt 60
 tttatagctc atcttttaggg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120
 gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt gggccaagg 180
 tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
 tctctctcc agatganaac tgatcatgcg cccacatttt gggttttata gaagcagtca 300
 c 301

<210> 272
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 272
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
 tccaataatt cctcatgat gagcaagaaa aattctttgc gcaacctcc tgcattccaca 180
 gcatcttctc caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttgttttc 240
 ctaaggactt ccattgcac tcctacaata ttttctctac gcaccactag aattaagcag 300
 g 301

<210> 273
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 273
 acatgtgtgt atgtgtatct ttgggaaan aanaagacat cttgtttayt atttttttgg 60
 agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120
 gaaccgtcta aaaataaaat ttaccatgtc dtatatctct tatagtatgc ttatttcacc 180
 ttytttctgt ccagagagag tatcagtgc ananatttma ggggaamac atgmattggt 240
 gggacttnty tttacngagm acctgcccg sgcgcctcg makcngantt ccgcsananc 300
 t 301

<210> 274
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 274
 cttatatact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg 60
 aacagtaaatt gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa 120
 tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggt gaaaagtcca 180

```

tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc 240
aattgtgctt cttttgataa gaagctttct tggtcatatc aggaaattcc aganaaagtc 300
c 301

```

```

<210> 275
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 275
tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg 60
gggtgaaatt ggccaacttt ctattaactt atgttggcaa ttttgccacc aacagtaagc 120
tggcccttct aataaaagaa aattgaaagg tttctcacta aacggaatta agtagtggag 180
tcaagagact ccagggcctc agcgtacctg cccgggcggc cgctcgaagc cgaattctgc 240
agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat 300
a 301

```

```

<210> 276
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 276
tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat 60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat 120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc 180
caatacatTT aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt 240
aaaactattc agtatgtttc ccttgcttca tgtctgagaa ggctctcctt caatggggat 300
g 301

```

```

<210> 277
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 277
tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag 60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg 120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccc cctcgtcct 180
caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga 240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtcntccg ttcaatcttg 300
c 301

```

```

<210> 278

```

<211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 278
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
 cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
 aatgaacatc tcatgtgtgc tcacaatgtt ctggcactat tataagtgtc tcacaggttt 240
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
 c 301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatatata ttgccaatat aagtaaata agattatata tgtatagtgt ttcacaaagc 120
 ttagaccttt acctccagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaagggtg gtggaaccaa atttgtgtca atggaaatag gagaatatgg ttctcactct 120
 tgagaaaaaa acctaaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
 gtttgatata gtttaggggtt ggggttagat taagatctaa attacatcag gacaaagaga 240
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300
 t 301

<210> 281
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 281

```

aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc      60
gccgagcaat ccaaatacctg aatgaagggg catctttctga aaaaggagat ctgaatctca    120
atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa    180
tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc    240
tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc    300
g                                                                                   301

```

```

<210> 282
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 282
caggtactac agaattaaag tactgacaag caagtagttt cttggcgtgc acgaattgca      60
tccagaaccc aaaaattaag aaattcaaaa agacattttg tgggcacctg ctagcacaga    120
agcgcagaag caaagcccag gcagaacccat gctaaccctta cagctcagcc tgcacagaag    180
cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg    240
cagaagcaaa gcccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag    300
a                                                                                   301

```

```

<210> 283
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 283
atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaaag      60
cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca    120
gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc    180
acttcccagg ttttatgcaa aaattttggt aaattctata atgggtgatat gcactcttta    240
ggaaacatat acatttttaa aaatctatct tatgtaagaa ctgacagacg aatttgcttt    300
g                                                                                   301

```

```

<210> 284
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 284
caggtacaaa acgctattaa gtggcttaga atttgaacat ttgtggtctt tatttacttt      60
gcttcgtgtg tgggcaaagc aacatcttcc ctaaatatat attaccaaga aaagcaagaa    120
gcagattagg tttttgacaa aacaaacagg caaaaagggg gctgacctgg agcagagcat    180
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt    240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt    300
a                                                                                   301

```

```

<210> 285
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)

```

<223> n = A,T,C or G

<400> 285

```

acatcaccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc      60
aatgatcatt agtgttttaa aaaaaatact gaaaactcct tctgcatccc aatctctaac      120
caggaaagca aatgctattt acagacctgc aagccctccc tcaaacnaaa ctatttctgg      180
attaaatatg tctgacttct tttgaggtca cagcactagg caaatgctat ttacgatctg      240
caaaagctgt ttgaagagtc aaagcccca tgtgaacacg atttctggac cctgtaacag      300
t                                                                301

```

<210> 286

<211> 301

<212> DNA

<213> Homo sapien

<400> 286

```

taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct      60
tgtatattat ttttgcttta cagtggatca ttctagtagg aaaggacagt aagatttttt      120
atcaaaatgt gtcatgccag taagagatgt tatattcttt tctcatttct tccccacca      180
aaaataagct accatatagc ttataagtct caaatttttg ccttttacta aaatgtgatt      240
gtttctgttc attgtgtatg cttcatcacc tatattaggc aaattccatt ttttccttg      300
t                                                                301

```

<210> 287

<211> 301

<212> DNA

<213> Homo sapien

<400> 287

```

tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg      60
cccagaagga acgtagagat cagatattac aacagctttg ttttgagggt tagaaatatg      120
aaatgatttg gttatgaacg cacagttagg gcagcagggc cagaatcctg accctctgcc      180
ccgtggttat ctctcccca gcttggtgc ctcagtgtat cacagtatc cattttgttt      240
gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc      300
t                                                                301

```

<210> 288

<211> 301

<212> DNA

<213> Homo sapien

<400> 288

```

gtacacctaa ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag      60
agtcaatagg aagacaaatt ccagttccag ctcagtctgg gtatctgcaa agctgcaaaa      120
gatctttaaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatc      180
aaaagcatct gcttttgtga tttaatttag ctcactctgg cactggaaga atccaaacag      240
tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa      300
a                                                                301

```

<210> 289

<211> 301

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 289
 ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
 gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120
 ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
 cgttctataa atgaatgtgc tgaagcaaag tgcccatggt ggcggcgaan aagagaaaga 240
 tgtgttttgt tttggactct ctgtgggcc ttccaatgct gtgggtttcc aaccagngga 300
 a 301

<210> 290
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 290
 aactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
 tgactgatct gttcatttct ctcacagctc ttaccccaaa aagcttttcc accctaagtg 120
 ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
 gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
 tgccttgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtgcg 300
 a 301

<210> 291
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 291
 caggtagcaa tttcttctat cctagaaaca tttcatttta tgttgttgaa acataacaac 60
 tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
 tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180
 agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240
 acatgagctt cacttcccca ctaactaatt agcatctgtt atttcttaac cgtaatgcct 300
 a 301

<210> 292
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

```

<400> 292
accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc      60
tgtattaaat aatttttaag tttaaaagat aaaataccat catttttaaat gttggtattc      120
aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaaatgat ttgcnagatg      180
ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc      240
tcactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa      300
a                                                                301

```

```

<210> 293
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 293
ggtaccaagt gctggtgccg gcctgttacc tgtttctact gaaaagtctg gctaattgctc      60
ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactggt      120
aacacaaaacg tcactagcaa agtagcaaca gctttaagtc taaatacaaaa gctgttctgt      180
gtgagaattt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg      240
ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat      300
g                                                                301

```

```

<210> 294
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 294
tgacccataa caatatacac tagctatctt tttaaactgtc catcattagc accaatgaag      60
attcaataaaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag      120
tttaactata gtcacaganc ttaaatatcc acattgtttt ctatgtctac tgaaaataag      180
ttcactactt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc      240
cccaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt      300
t                                                                301

```

```

<210> 295
<211> 305
<212> DNA
<213> Homo sapien

```

```

<400> 295
gtactctttc tctcccctcc tctgaattta attctttcaa cttgcaattt gcaaggatta      60
cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac      120
ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga      180
actggtagaa aaacrtctga agagctagtc tatcagcatc tgacaggtga attggatggg      240
tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggg      300
tctct                                                                305

```

```

<210> 296
<211> 301

```

<212> DNA
 <213> Homo sapien

<400> 296
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180
 tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300
 c 301

<210> 297
 <211> 300
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 297
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60
 aaggttttga aaaccttgaa ggagaatcat tttgacaaga agtacttaag agtctagaga 120
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc aactggcgg 300

<210> 298
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 298
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60
 ggcattctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg 120
 tgaagctctc agatcaatca cgggaagggc ctggcggttg tggccacctg gaaccacctt 180
 gtctgtctg tttacatttc actaycaggt tttctctggg cattacnatt tgttccccta 240
 caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctgagcgagg 300
 t 301

<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299
 gttttgagac ggagtttcac tcttggtgcc cagactggac tgcaatggca gggctctctgc 60
 tcactgcacc ctctgcctcc cagggttcag caattctcct gcctcagcct cccaggtagc 120

tgggattgca	ggctcacgcc	accataccca	gctaattttt	ttgtattttt	agtagagacg	180
gagtttcgcc	atgttggcca	gctgggtctca	aactcctgac	ctcaagcgac	ctgcctgcct	240
cggcctccca	aagtgtctgga	attataggca	tgagtcaaca	cgcccagcct	aaagatattt	300
t						301

<210> 300
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 300						
attcagtttt	atttgctgcc	ccagtatctg	taaccaggag	tgccacaaaa	tcttgccaga	60
tatgtcccac	acccactggg	aaaggctccc	acctggctac	ttcctctatc	agctgggtca	120
gctgcattcc	acaaggttct	cagcctaata	agtttcaact	cctgccagtc	tcaaaactta	180
gtaaagcaag	accatgacat	tccccacgg	aatcagagt	ttgccccacc	gtcttggtac	240
tataaagcct	gcctctaaca	gtccttgctt	cttcacacca	atcccagcgc	catcccccat	300
g						301

<210> 301
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 301						
ttaaattttt	gagaggataa	aaaggacaaa	taatctagaa	atgtgtcttc	ttcagtcctgc	60
agaggacccc	aggtctccaa	gcaaccacat	ggtcaagggc	atgaataatt	aaaagttggt	120
gggaactcac	aaagaccctc	agagctgaga	caccacaaac	agtgggagct	cacaaagacc	180
ctcagagctg	agacaccac	aacagtggga	gtcacaaaag	accctcagag	ctgagacacc	240
cacaacagca	cctcgttcag	ctgccacatg	tgtgaataag	gatgcaatgt	ccagaagtgt	300
t						301

<210> 302
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 302						
aggtacacat	ttagcttggtg	gtaaatgact	cacaaaactg	attttaaaat	caagttaatg	60
tgaattttga	aaattactac	ttaatcctaa	ttcacaataa	caatggcatt	aaggtttgac	120
ttgagttggt	tcttagtatt	atttatggta	aataggctct	taccacttgc	aaataactgg	180
ccacatcatt	aatgactgac	ttcccagtaa	ggctctctaa	ggggtaagta	ggaggatcca	240
caggatttga	gatgctaagg	ccccagagat	cgtttgatcc	aaccctctta	ttttcagagg	300
g						301

<210> 303
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 303						
aggtaccaac	tgtggaaata	ggtagaggat	cattttttct	ttccatatca	actaagttgt	60
atattgtttt	ttgacagttt	aacacatctt	cttctgtcag	agattctttc	acaatagcac	120
tggtcaatgg	aactaccgct	tgcatgttaa	aaatgggtgt	ttgtgaaatg	atcataggcc	180
agtaacgggt	atgtttttct	aactgatctt	ttgctcgttc	caaagggacc	tcaagacttc	240

catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300
c 301

<210> 304
<211> 301
<212> DNA
<213> Homo sapien

<400> 304
acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt 60
tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc 120
cttttttagtg tatcatatca ggaatcatct cacattgggtt tgtgccatta ctggtgcagt 180
gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga 240
ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct 300
c 301

<210> 305
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 305
gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag 60
cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggcg 120
taaaggagga gaaacagata caaaatctcc aactcagtat taaggatttc tcatgcctag 180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa 240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag 300
a 301

<210> 306
<211> 8
<212> PRT
<213> Homo sapien

<400> 306
Val Leu Gly Trp Val Ala Glu Leu
1 5

<210> 307
<211> 637
<212> DNA
<213> Homo sapien

<400> 307
acaggggatg aagggaaagg gagaggatga ggaagccccc ctggggattt ggtttgggtcc 60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac 120
attgaggaat gatacttgag ccaaagagc attcaatcat tgttttattt gccttmtttt 180
cacaccattg gtgagggagg gattaccacc ctggggttat gaagatgggt gaacacccca 240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300

```

gcaggaggac gcttgcacac catgcaggat gacatggggg atgcgctcgg gattggtgtg 360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacggtgggg caaactctga 420
tttccgtggg ggaatgtcat ggtcttgctt tactaagttt tgagactggc aggtagttaa 480
actcattagg ctgagaacct tgtggaatgc acttgaccca sctgatagag gaagtagcca 540
ggtgggagcc tttcccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg 600
ttacagatac tggggcagca aataaaactg aatcttg 637

```

```

<210> 308
<211> 647
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

```

```

<400> 308
acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
tgctcagggg aaggttcata tgggactttc tactgcccaa ggttctatac aggatataaa 120
gngcctcac agtatagatc tggtagcaaa gaagaagaaa caaactga tctctttctg 180
ccaccctct gacccttttg aactcctctg accctttaga acaagcctac ctaatatctg 240
ctagagaaaa gaccaacaac ggcctcaaag gatctcttac catgaaggtc tcagctaatt 300
cttggttaag atgtgggttc cacattaggt tctgaatatg gggggaagg tcaatttgct 360
cattttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt gccatgaaga cttgagggac ctgaatctac cgattcatct taaggcagca 540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt tttttctcct gcttctgact tgataaaagg ggaccgt 647

```

```

<210> 309
<211> 460
<212> DNA
<213> Homo sapien

```

```

<400> 309
actttatagt ttaggctgga cattggaaaa aaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct tcagcaagag ggggaaatac tcatcatttt tggccagcag ttgtttgatc 180
accaaacatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtcgc 240
ggggaattta ttcttgcaa ttttaattgg actccttatg tgagagcagc ggctaccag 300
ctggggtggt ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggtaacc 360
acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaat 420
ttgtcttggt tttgtctttc ggtgtgtaag attcttaagt 460

```

```

<210> 310
<211> 539
<212> DNA
<213> Homo sapien

```

```

<400> 310
acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60
ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120
taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa 180

```

```

gtcagacagt aagattttgtg ggaaatgggt tggtttggtg tatggtatgt attttagcaa      240
taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgatc acttgctgaa      300
ttcctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac      360
ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc acactgtgac      420
atgattatgt cattacatgt atggtagtga tggggatgat aggaaggaag aacttatggc      480
atattttcac cccacacaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga      539

```

```

<210> 311
<211> 526
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G

```

```

<400> 311
caaatttgag ccaatgacat agaattttac aaatcaagaa gcttattctg gggccatttc      60
ttttgacggt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta      120
catttacagc attttaaagt tgttcagcat gaaatattag ctacagggga agctaaataa      180
attaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg      240
tttttcacaa gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa      300
aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc      360
tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc      420
acagcaagag cttctcatct aaaccctttc cctttttagt atctgtgtat caagtataaa      480
agttctataa actgtagtnt acttatttta atcccccagg cacagt      526

```

```

<210> 312
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 312
cctctctctc cccacccctt gactctagag aactgggttt tctcccagta ctccagcaat      60
tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct      120
ccattttctc ttcccttcca cctgccagtt ttgctgactc tcaacttgtc atgagtgtaa      180
gcattaagga cattatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg      240
gcttcttagg aaaatathtt tcttccaaaa tcagtaggaa atctaaactt atccctctt      300
tgcagatgtc tagcagcttc agacatttgg ttaagaaccc atgggaaaaa aaaaaatcct      360
tgctaattgt gtttcctttg taaaccanga ttcttatttg nctggtatag aatatcagct      420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt      480
tagtcttaat tatctatttg

```

```

<210> 313
<211> 718
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 313
 ggagatttgt gtggtttgca gccgagggag accaggaaga tctgcatggt gggaaggacc 60
 tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat 120
 ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa 180
 gtagtgacat gtttttgcac atttccagcc cttttaaata tccacacaca caggaagcac 240
 aaaaggaagc acagagatcc ctgggagaaa tgcccggccg ccatcttggg tcatcgatga 300
 gcctcgccct gtgcctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg 360
 ttccttaaag gatggcagga aaacagatcc tggttggtgat atttatttga acgggattac 420
 agatttgaag tgaagtcaca aagtgagcat taccaatgag aggaaaacag acgagaaaat 480
 cttgatggtt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc 540
 aactggggag gagataccac ggggcagagg tcaggattct ggccttgctg cctaactgtg 600
 cgttatacca atcattttcta tttctaccct caaacaagct gtngaatatc tgacttacgg 660
 ttcttntggc ccacattttc atnatccacc centcntttt aannttantc caaantgt 718

<210> 314
 <211> 358
 <212> DNA
 <213> Homo sapien

<400> 314
 gtttattttac attacagaaa aaacatcaag acaatgtata ctatttcaaa tatatccata 60
 cataatcaaa tatagctgta gtacatgttt tcattgggtg agattaccac aaatgcaagg 120
 caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg ttagtccaa 180
 gctctcggtg gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240
 ttgttgtatt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttget 300
 tctggggcat ttccttgtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

<210> 315
 <211> 341
 <212> DNA
 <213> Homo sapien

<400> 315
 taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60
 ataggtgatg atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120
 gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag cccaatgac 180
 agtcaccagc tccccgacca gccggatata gtccttaggg gtcatgtagg cttcctgaag 240
 tagcttctgc tgtaagaggg tgttgtcccg ggggtcgtg cggttattgg tcctgggctt 300
 gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316
 agactgggca agactcttac gccccacact gcaatttgggt cttgttgccg tatecattta 60
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120
 cattcaggga gctctggttg caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
 agaactagtg gatcctaattg aaataacctga aacatatatt ggcatttatc aatggctcaa 60
 atcttcattt atctctggcc ttaacctggc ctctgaggc tgcggccagc agatcccagg 120
 ccagggctct gttcttgcca cacctgcttg a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct 60
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tgggggcggg ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
 aactagtgga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120
 taagattggg tttatgtgat tttagtgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 320
 aactagtgga tccactagtc cagtgtgggtg gaattccatt gtgttgggtg tctagatcgc 60
 gagcggctgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt 120
 gagtgttcta cagcttacag taaataccat 150

<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
 agcaactttg tttttcatcc aggttatattt aggcttagga tttcctctca cactgcagtt 60
 tagggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120
 tgccctctgag aaatcaaagt cttcatacac t 151

<210> 322
 <211> 151
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(151)

<223> n = A,T,C or G

<400> 322

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<210> 323

<211> 151

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(151)

<223> n = A,T,C or G

<400> 323

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gttcaatyaa	aaagacactt	ancccatgtg	g			151

<210> 324

<211> 461

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 324

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agagttacta	cgaatcccat	cttggttcca	gctatatcac	tgacagcatg	gtagaagact	180
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cacacaaatg	caatagtttg	tactgcatt	tttacctgaa	ccaaagctaa	acccggtgtt	360
gccaccatgc	accatggcat	gccagagttc	aacactgttg	ctcttgaaaa	ttgggtctga	420
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<210> 325

<211> 400

<212> DNA

<213> Homo sapien

<400> 325

acactgtttc	catgttatgt	ttctacacat	tgctacctca	gtgctcctgg	aaacttagct	60
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a g t a a g a g t g t g g c c t a t t t c a g c t g c t t t g a c a a a a t g a c t g g c t c c t g a c t t a a c g t 180
t c t a t a a a t g a a t g t g c t g a a g c a a a g t g c c a t g g t g g c g g c g a a g a a g a g a a g a t g t 240
g t t t t g t t t t g g a c t c t c t g t g g t c c c t t c a a t g c t g t g t g g t t t c c a a c c a g g g g a a g g 300
g t c c c t t t t g c a t t g c c a a g t g c c a t a a c c a t g a g c a c t a c g c t a c c a t g g t t c t g c c t c 360
c t g g c c a a g c a g g c t g g t t t g c a a g a a t g a a a t g a a t g a t 400

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<210> 326
<211> 1215
<212> DNA
<213> Homo sapien

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g t t c t g c t c g g g c g t c c t g g t g c a t c c g c a g t g g g t g c t g t c a g c c g c a c a c t g t t t c c a 120
g a a c t c c t a c a c c a t c g g g c t g g g c c t g c a c a g t c t t g a g g c c g a c c a a g a g c c a g g g a g 180
c c a g a t g g t g g a g g c c a g c c t c t c c g t a c g g c a c c a g a g g a g t c t g a c a c a g a c c t t g c t c g c 240
t a a c g a c c t c a t g t c c a t c a a g t t g g a c a g a t c c g t g t c c g a g t c t g a c a c c a t c c g g a g 300
c a t c a g c a t t g c t t c g c a g t g c c c t a c c g c g g g a a c t c t t g c c t c g t t t c t g g c t g g g g 360
t c t g c t g g c g a a c g c a g a a t g c c t a c c g t g c t g c a g t g c g t g a a c g t g t c g g t g g t g t c 420
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a g g t g t c t a c a c c a a c c t c t g c a a a t t c a c t g a g t g g a t a g a a a a c c g t c c a g g c c a g 660
t t a a c t c t g g g a c t g g g a a c c a t g a a a t t g a c c c c a a a t a c a t c c t g c g g a a g g a a t 720
t c a g g a a t a t c t g t t c c c a g c c c c t c c t c c c a g g c c a g g a g t c c a g c c c c a g c c c 780
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<210> 327
<211> 220
<212> PRT
<213> Homo sapien

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Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly
35        40        45
Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu
50        55        60
Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala
65        70        75        80
Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
85        90        95
Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn

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Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly
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Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro
		165						170					175		
Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	Lys	Ala
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Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys
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Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser				
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<210> 328
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 <212> DNA
 <213> Homo sapien

<400> 328	
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<210> 329
 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 329	
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Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr	
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<210> 330
 <211> 70
 <212> DNA
 <213> Homo sapien

<400> 330	
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gctgcagcca	70

<210> 331

<211> 22
 <212> PRT
 <213> Homo sapien

<400> 331
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 Val Ser Gly Ser Cys Ser
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<210> 332
 <211> 2507
 <212> DNA
 <213> Homo sapien

<400> 332
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<210> 333

<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<210> 334

<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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<210> 335
<211> 2984
<212> DNA
<213> Homo sapien

<400> 335
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cccagctgc cttctccac actcaggtga tcgagttgga gaggaagttc agccatcaga 180
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tgaatccatc ttgctttttc cccattggaa ctagtcatta acccatctct gaactggtag 2700


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tgcataacaa accctgctcc aatctgtcac ataaaaagtct gtgacttgaa gtttagtcag 2880
cacccccacc aaactttatt tttctatgtg ttttttgcaa catatgagtg ttttgaaaat 2940
aaagtaccca tgtctttatt agaaaaaaaa aaaaaaaaaa aaaa 2984

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<210> 336
<211> 147
<212> PRT
<213> Homo sapien

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<400> 336
Pro Ser Phe Pro Thr Leu Leu Ser Arg Arg His Leu Gly Ser Tyr Leu
1      5      10
Leu Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr
20     25     30
Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
35     40     45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50     55     60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65     70     75     80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85     90     95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100    105    110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
115    120    125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
130    135    140
Ala Phe Trp
145

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<210> 337
<211> 9
<212> PRT
<213> Homo sapien

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<400> 337
Ala Leu Thr Gly Phe Thr Phe Ser Ala
1      5

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<210> 338
<211> 9
<212> PRT
<213> Homo sapien

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<400> 338
Leu Leu Ala Asn Asp Leu Met Leu Ile
1      5

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<210> 339
<211> 318

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<212> PRT

<213> Homo sapien

<400> 339

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Met Val Glu Leu Met Phe Pro Leu Leu Leu Leu Leu Leu Pro Phe Leu
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Leu Tyr Met Ala Ala Pro Gln Ile Arg Lys Met Leu Ser Ser Gly Val
          20          25          30
Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly
          35          40          45
Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
          50          55          60
Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
65          70          75          80
Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
          85          90          95
Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
          100          105          110
Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
          115          120          125
Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
          130          135          140
His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
145          150          155          160
Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
          165          170          175
Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
          180          185          190
Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
          195          200          205
Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
          210          215          220
Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
225          230          235          240
Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
          245          250          255
Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
          260          265          270
Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
          275          280          285
Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg
          290          295          300
Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp
305          310          315

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<210> 340

<211> 483

<212> DNA

<213> Homo sapien

<400> 340

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ctcctgctgc aggctggagt gtctttattc ctggcgggag accgcacatt cactgctga      180

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ggttgtgggg	gcggtttatc	aggcagtgat	aaacataaga	tgtcatttcc	ttgactccgg	240
ccttcaattt	tctctttggc	tgacgacgga	gtccgtgggtg	tcccgatgta	actgaccct	300
gctccaaacg	tgacatcact	gatgctcttc	tcggggggtgc	tgatggccc	cttggtcacg	360
tgctcaatct	cgccattcga	ctcttgctcc	aaactgtatg	aagacacctg	actgcacgtt	420
ttttctgggc	ttccagaatt	taaagtgaag	ggcagcactc	ctaagctccg	actccgatgc	480
ctg						483

<210> 341
 <211> 344
 <212> DNA
 <213> Homo sapien

<400> 341						
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gctgccttac	aagtattaaa	tatttttact	ctttccataa	agagtagctc	aaaatatgca	180
attaatttaa	taattttctga	tgatgggttt	atctgcagta	atatgtatat	catctattag	240
aatttactta	atgaaaaact	gaagagaaca	aaatttgtaa	ccactagcac	ttaagtactc	300
ctgattctta	acattgtctt	taatgaccac	aagacaacca	acag		344

<210> 342
 <211> 592
 <212> DNA
 <213> Homo sapien

<400> 342						
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caatgtggaa	acttcttata	cttggttcca	ttatgaagtt	ggacaattgc	tgctatcaca	120
cctggcaggt	aaaccaatgc	caagagagtg	atggaaacca	ttggcaagac	tttggtgatg	180
accaggattg	gaattttata	aaaatattgt	tgatgggaag	ttgctaaagg	gtgaattact	240
tccctcagaa	gagtgtaaag	aaaagtcaga	gatgctataa	tagcagctat	tttaattggc	300
aagtgccact	gtggaaagag	ttcctgtgtg	tgctgaagtt	ctgaagggca	gtcaaattca	360
tcagcatggg	ctgtttggtg	caaatgcaaa	agcacaggtc	tttttagcat	gctggctctt	420
cccgtgtcct	tatgcaataa	atcgtcttct	tctaaatttc	tcctaggctt	cattttccaa	480
agttcttctt	ggtttgtgat	gtcttttctg	ctttccatta	attctataaa	atagtatggc	540
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<210> 343
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 343						
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cttaatgttt	gtggctttct	ctccagcctc	tcttaggagg	ggtaatgggtg	gagttggcat	120
cttgtaactc	tcctttctcc	tttcttcccc	tttctctgcc	cgcttttccc	atcctgctgt	180
agacttcttg	attgtcagtc	tgtgtcacat	ccagtgattg	ttttggtttc	tggtcccttt	240
ctgactgccc	aaggggctca	gaaccccagc	aatcccttcc	tttactacc	ttcttttttg	300
ggggtagtgtg	gaagggactg	aaattgtggg	gggaaggtag	gaggcacatc	aataaagagg	360
aaaccaccaa	gctgaaaaaa	aa				382

<210> 344
 <211> 536
 <212> DNA

<213> Homo sapien

<400> 344

ctgggcctga	agctgtaggg	taaatcagag	gcaggcttct	gagtgatgag	agtcctgaga	60
caataggcca	cataaacttg	gctggatgga	acctcacaat	aaggtgggtca	cctcttgttt	120
gtttaggggg	atgccaagga	taaggccagc	tcagttatat	gaagagaagc	agaacaaaca	180
agtctttcag	agaaatggat	gcaatcagag	tgggatcccg	gtcacatcaa	ggtcacactc	240
caccttcacg	tgctgaatg	gttgccaggt	cagaaaaatc	caccccttac	gagtgcggct	300
tcgaccctat	atcccccgcc	cgcgtccctt	tctccataaa	attcttctta	gtagctatta	360
ccttcttatt	atttgatcta	gaaattgcc	tccttttacc	cctaccatga	gccctacaaa	420
caactaacct	gccactaata	gttatgtcat	ccctcttatt	aatcatcatc	ctagccctaa	480
gtctggccta	tgagtgacta	caaaaaggat	tagactgagc	cgaataacaa	aaaaaa	536

<210> 345

<211> 251

<212> DNA

<213> Homo sapien

<400> 345

accttttgag	gtctctctca	ccacctccac	agccaccgtc	accgtgggat	gtgctggatg	60
tgaatgaagc	ccccatcttt	gtgcctcctg	aaaagagagt	ggaagtgtcc	gaggactttg	120
gcgtgggcca	ggaaatcaca	tcctacactg	cccaggagcc	agacacattt	atggaacaga	180
aaataacata	tcggatttgg	agagacactg	ccaactggct	ggagattaat	ccggacactg	240
gtgccatttc	c					251

<210> 346

<211> 282

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(282)

<223> n = A,T,C or G

<400> 346

cgcgtctctg	acactgtgat	catgacaggg	gttcaaacag	aaagtgcctg	ggccctcctt	60
ctaagtcttg	ttaccaaaaa	aaggaaaaag	aaaagatctt	ctcagttaca	aattctggga	120
aggagagacta	tacctggctc	ttgccctaag	tgagaggtct	tcctcccg	acaaaaaat	180
agaaaggctt	tctatttcac	tggcccaggt	agggggaagg	agagtaactt	tgagtctgtg	240
ggtctcattt	cccaagggtg	cttcaatgct	catnaaaacc	aa		282

<210> 347

<211> 201

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(201)

<223> n = A,T,C or G

<400> 347

acacacataa	tattataaaa	tgccatctaa	ttggaaggag	ctttctatca	ttgcaagtca	60
------------	------------	------------	------------	------------	------------	----

taaataataac ttttaaaana ntactancag cttttaccta ngctcctaaa tgcttgtaaa	120
tctgagactg actggaccca cccagaccca gggcaaagat acatggtacc atatcatctt	180
tataaagaat ttttttttgt c	201

<210> 348
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 348	
ctgttaatca caacatttgt gcatcacttg tgccaagtga gaaaatgttc taaaatcaca	60
agagagaaca gtgccagaat gaaactgacc ctaagtccca ggtgcccctg ggcaggcaga	120
aggagacact cccagcatgg aggaggggtt atcttttcat cctaggtcag gtctacaatg	180
ggggaagggt ttattataga actcccaaca gccacctca ctctgccac ccacccgatg	240
gccctgcctc c	251

<210> 349
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 349	
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aaccctgag gatgccagag ctatgggtcc agaacatggt gtggtattat caacagagtt	120
cagaagggtc tgaactctac gtgttaccag agaacataat gcaattcatg cattccactt	180
agcaattttg taaaatacca gaaacagacc ccaagagtct ttcaagatga ggaaaattca	240
actcctgggt t	251

<210> 350
 <211> 908
 <212> DNA
 <213> Homo sapien

<400> 350	
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cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttctct gtgacaccaa	180
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ttatgcaaga acagattatg cagagaatgc taacaaatta gaagaaagtg ccagagaaca	720
ccacatacct tgtccggaac attacaatgg cttctgcatg catgggaagt gtgagcattc	780
tatcaatatg caggagccat cttgcagggt tgatgctggt tatactggac aacactgtga	840
aaaaaaggac tacagtgttc tatacgttgt tcccggctct gtacgatttc agtatgtctt	900
aatcgag	908

<210> 351
 <211> 472
 <212> DNA

<213> Homo sapien

<400> 351
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 cattaacttg attttaaaat cagwtttgyg agtcatttac cacaagctaa atgtgtacac 180
 tatgataaaa acaaccattg tattcctgtt tttctaaaca gtcctaattt ctaacactgt 240
 atatatcctt cgacatcaat gaactttgtt ttcttttact ccagtaataa agtaggcaca 300
 gatctgtcca caacaaactt gccctctcat gccttgccctc tcaccatgct ctgctccagg 360
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgcttctt gcttttcttg 420
 gtaatatata tttagggaag atgttgcttt gccacacac gaagcaaagt aa 472

<210> 352

<211> 251

<212> DNA

<213> Homo sapien

<400> 352
 ctcaaagcta atctctcggg aatcaaacca gaaaagggca aggatcttag gcatgggtgga 60
 tgtggataag gccagggtcaa tggctgcaag catgcagaga aagaggtaca tcggagcgtg 120
 caggctgcgt tccgtcctta cgatgaagac cacgatgcag tttccaaaca ttgccactac 180
 atacatggaa aggaggggga agccaaccca gaaatgggct ttctctaate ctgggatacc 240
 aataagcaca a 251

<210> 353

<211> 436

<212> DNA

<213> Homo sapien

<400> 353
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 gtatccaaaa gcaaaacagc agatatacaa aattaaagag acagaagata gacattaaca 180
 gataaggcaa cttatacatt gacaatccaa atccaatata tttaaacatt tgggaaatga 240
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 gggtccttaa tgtagt 436

<210> 354

<211> 854

<212> DNA

<213> Homo sapien

<400> 354
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 ctggcagtag aagctgttct ccagggtacat ttctctagct catgtacaaa aacatcctga 240
 aggactttgt cagggtgcctt gctaaaagcc agatgcgttc ggcacttcct tggctgagg 300
 ttaattgcac acctacaggc actgggctca tgctttcaag tattttgtcc tcactttagg 360
 gtgagtgaat gatccccatt ataggagcac ttgggagaga tcatataaaa gctgactctt 420
 gagtacatgc agtaatgggg tagatgtgtg tgggtgtgtc tcattcctgc aagggtgctt 480
 gttagggagt gtttccagga ggaacaagtc tgaaaccaat catgaaataa atggtaggtg 540

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caatatggaa	ggctctaatt	tgcccatatt	tgaaataata	attcagcttt	ttgtaataca	660
aaataacaaa	ggattgagaa	tcatgggtgc	taatgtataa	aagacccagg	aaacataaat	720
atatcaactg	cataaatgta	aaatgcatgt	gacccaagaa	ggccccaag	tggcagacaa	780
cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
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<210> 355
 <211> 676
 <212> DNA
 <213> Homo sapien

<400> 355						
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gtgactttcc	cacggccaaa	aagctgttca	cacctcacgc	acctctgtgc	ctcagtttgc	420
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<210> 356
 <211> 574
 <212> DNA
 <213> Homo sapien

<400> 356						
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caagcttccc	atttgtagat	ctcagtgcc	atgagtatct	gacacctgtt	cctctcttca	180
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gatagacggc	acagggagct	cttaggtcag	cgtcgtcgg	tggaggacat	tcctgagtc	540
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<210> 357
 <211> 393
 <212> DNA
 <213> Homo sapien

<400> 357						
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aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aaatataaac	ggsaaaaaag	180
atagatatata	ttattccagt	tttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tgttatatgg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300

gcataatctg tacaaaatta aactgtcctt tttggcattt taacaaattt gcaacgktct 360
 tttttttctt tttctgtttt tttttttttt tac 393

<210> 358
 <211> 630
 <212> DNA
 <213> Homo sapien

<400> 358
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 gcatagagta ggaagctaa tccagcacag ggaggtcaca gagacatccc taaggaagtg 180
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 gtagaacaat ttgggcagag ggaaccttat agaccctaag gtgggaaggt tcaaagaact 300
 gaaagagagc tagaacagct ggagccgttc tccggtgtaa agaggagtca aagagataag 360
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 caagccagag gttcctccac aacaaccagt 630

<210> 359
 <211> 620
 <212> DNA
 <213> Homo sapien

<400> 359
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 aaagacaaca tgatacctta ggaagcaaca ctaccctttc aggcataaaa tttggagaaa 360
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 <211> 431
 <212> DNA
 <213> Homo sapien

<400> 360
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 tactcatcat ttttggccag cagttgtttg atcaccaaac atcatgccag aatactcagc 180
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 agtgacatg cagtggcaga gctcctggta accacctaga ggaatacaca ggcacatgtg 360
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<210> 361
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 361
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 ttgggtcctc tgggtctcttg ccaagtttcc cagccactcg agggagaaat atcgggagggt 180
 ttgacttctc cccgggcttt cccgagggct tcaccgtgag ccctgcggcc ctccagggctg 240
 caatcctgga ttcaatgtct gaaacctcgc tctctgcttg ctggacttct gaggccgtca 300
 ctgccactct gtcctccagc tctgacagct cctcatctgt ggtcctgttg t 351

<210> 362
 <211> 463
 <212> DNA
 <213> Homo sapien

<400> 362
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 ccccggtcac agaaatgacc aggttgggtg ttttcagggtg ccagtgtctg gtcagcagct 180
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<210> 363
 <211> 653
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(653)
 <223> n = A,T,C or G

<400> 363
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 tgggaggcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttgagat 180
 ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc 240
 ccaacagcaa cccccggaa gtatgagttc ctctrgggcc tccgttccca ccatgagasc 300
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 attttgaga tccttggtcc agaattccat ttaccttctg ggccagatac caccagaatg 600
 cccgtccag attccctcag acctttgccg gtcccattat tggctstggt ggt 653

<210> 364
 <211> 401
 <212> DNA

<213> Homo sapien

<400> 364
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 tgagaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240
 catttcacac ccttcatata aattcactat cttggcttga ggcactccat aaaatgtatc 300
 acgtgcatag taaatcttta tatttgctat ggcgttgac tagaggactt ggactgcaac 360
 aagtggatgc gcggaaaatg aaatcttctt caatagccca g 401

<210> 365

<211> 356

<212> DNA

<213> Homo sapien

<400> 365
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 taccagagca tcaagtctct gcagcaggtc attcctgggt aaagaaatga cttccacaaa 180
 ctctccatcc cctggctttg gcttcggcct tgcgttttgc gcatcatctc cgtaaatggt 240
 gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300
 acattcggca atgtccctt tgtagccagt ttcttcttcg agctcccga gagcag 356

<210> 366

<211> 1851

<212> DNA

<213> Homo sapien

<400> 366
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 ttgctgtttt cagaagagat ttttaacatc tgtttttctt tgtagtcaga aagtaactgg 240
 caaattacat gatgatgact agaaacagca tactctctgg ccgtctttcc agatcttgag 300
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<210> 367
 <211> 668
 <212> DNA
 <213> Homo sapien

<400> 367						
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accrtataag	agcagtgc	tggccattaa	tttatctt	attttagaca	gcrtagtgya	180
gagtggat	tccatactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240
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aaaaaaa						668

<210> 368
 <211> 1512
 <212> DNA
 <213> Homo sapien

<400> 368						
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<210> 369
 <211> 1853
 <212> DNA
 <213> Homo sapien

<400> 369						
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<210> 370
 <211> 2184
 <212> DNA
 <213> Homo sapien

<400> 370						
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<210> 371

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1855)

<223> n = A,T,C or G

<400> 371

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<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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<210> 373

<211> 1155

<212> DNA

<213> Homo sapien

<400> 373

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<210> 374

<211> 2000

<212> DNA

<213> Homo sapien

<400> 374

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<210> 375
 <211> 2040
 <212> DNA
 <213> Homo sapien

<400> 375						
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<210> 376
 <211> 329
 <212> PRT
 <213> Homo sapien


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<400> 376
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Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
          35          40          45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
 50          55          60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
 65          70          75          80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
          85          90          95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
          100          105          110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
          115          120          125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
          130          135          140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
          145          150          155          160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
          165          170          175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
          180          185          190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
          195          200          205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
          210          215          220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
          225          230          235          240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
          245          250          255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
          260          265          270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
          275          280          285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
          290          295          300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
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Ser Met Leu Phe Leu Val Ile Ile Met
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<210> 377

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 377

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          35          40          45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
          50          55          60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
65          70          75          80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
          85          90          95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
          100          105          110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
          115          120          125
Lys Leu Met Ala Lys Ala Leu Leu Tyr Gly Ala Asp Ile Glu Ser
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Lys Asn Lys Val
145

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<210> 378

<211> 1719

<212> PRT

<213> Homo sapiens

<400> 378

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          20          25          30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
          35          40          45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
          50          55          60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65          70          75          80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
          85          90          95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
          100          105          110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
          115          120          125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
          130          135          140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145          150          155          160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
          165          170          175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
          180          185          190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
          195          200          205

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Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
210						215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
				260				265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
290						295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
		370				375					380				
Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser
385					390					395					400
Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys
				405					410					415	
Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly
			420					425					430		
Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys
		435					440					445			
Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly
450						455					460				
Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys
465					470					475					480
Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys
				485					490					495	
Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp
			500					505				510			
Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu
		515					520					525			
Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp
					535						540				
Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln
545					550					555					560
Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val
				565					570					575	
Val	Lys	Leu	Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn
			580					585				590			
Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu
			595				600					605			
Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp
			610			615				620					
Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys
625					630					635					640

Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys
				645					650					655	
Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys
			660					665					670		
Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala
		675					680					685			
Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly
	690					695					700				
Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser
705					710					715					720
Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser
			725						730					735	
His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln
			740					745					750		
Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys
		755					760					765			
Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser
	770					775					780				
Gln	Pro	Glu	Lys	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp
785					790					795					800
Arg	Glu	Val	Glu	Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly
				805					810					815	
Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn
			820					825					830		
Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe
		835					840					845			
Pro	Asp	Asn	Glu	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser
	850						855				860				
Asp	Tyr	Lys	Glu	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn
865					870					875					880
Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu
				885					890					895	
Glu	Gly	Ser	Glu	Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile
			900					905					910		
Glu	Glu	Met	Lys	Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn
		915					920					925			
Leu	Thr	Asn	Gly	Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro
	930					935					940				
Pro	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu
945					950						955				960
Asn	Glu	Glu	Tyr	His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe
				965						970				975	
Cys	Glu	Glu	Gln	Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His
			980					985					990		
Glu	Glu	Lys	Gln												

Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys
 1075 1080 1085
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr
 1090 1095 1100
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys
 1105 1110 1115 1120
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp
 1125 1130 1135
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His
 1140 1145 1150
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp
 1155 1160 1165
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg
 1170 1175 1180
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val
 1185 1190 1195 1200
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys
 1205 1210 1215
 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly
 1220 1225 1230
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn
 1235 1240 1245
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys
 1250 1255 1260
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
 1265 1270 1275 1280
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr
 1285 1290 1295
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp
 1300 1305 1310
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val
 1315 1320 1325
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala
 1330 1335 1340
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala
 1345 1350 1355 1360
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn
 1365 1370 1375
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr
 1380 1385 1390
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr
 1395 1400 1405
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu
 1410 1415 1420
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly
 1425 1430 1435 1440
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn
 1445 1450 1455
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser
 1460 1465 1470
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly
 1475 1480 1485
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu
 1490 1495 1500

Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys
 1505 1510 1515 1520
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser
 1525 1530 1535
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu
 1540 1545 1550
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser
 1555 1560 1565
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe
 1570 1575 1580
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe
 1585 1590 1595 1600
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly
 1605 1610 1615
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro
 1620 1625 1630
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln
 1635 1640 1645
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile
 1650 1655 1660
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser
 1665 1670 1675 1680
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn
 1685 1690 1695
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr
 1700 1705 1710
 Met Lys His Gln Ser Gln Leu
 1715

<210> 379
 <211> 656
 <212> PRT
 <213> Homo sapien

<400> 379
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140

Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170						175
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
		195					200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250						255
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280						285		
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
	370					375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395					400
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu
				405					410					415	
Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn
		420						425					430		
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro
		435					440					445			
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu
	450					455					460				
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu
465					470					475					480
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp
			485						490					495	
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu
			500					505					510		
Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys
		515					520					525			
Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly
	530					535					540				
Ala	Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro	Pro	Arg	Lys	Ser
545					550					555					560
Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr
				565					570					575	

His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln
			580					585					590		
Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln
		595					600					605			
Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys
	610					615					620				
Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu	Arg	Glu	Glu	Ile
625					630					635					640
Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His	Gln	Ser	Gln	Leu
				645					650					655	

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75				80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155				160	
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180				185						190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260				265						270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
	275						280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr

290		295		300
Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile				
305		310		315
Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu				
	325		330	335
Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val				
	340		345	350
Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile				
	355		360	365
Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu				
	370		375	380
Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys				
385		390		395
Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu				
	405		410	415
Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn				
	420		425	430
Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro				
	435		440	445
Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu				
	450		455	460
Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu				
465		470		475
Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp				
	485		490	495
Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu				
	500		505	510
Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp				
	515		520	525
Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys				
	530		535	540
His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala				
545		550		555
Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg				
	565		570	575
Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His				
	580		585	590
Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn				
	595		600	605
Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile				
	610		615	620
Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys				
625		630		635
Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala				
	645		650	655
Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu				
	660		665	670

<210> 381

<211> 251

<212> DNA

<213> Homo sapien

<400> 381

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ggtaacatgc	tccccctaag	ggtatcccaa	cccaggggcc	tcaccatgac	ctctgagggg	120
ccaatatccc	aggagaagca	ttggggagtt	gggggcaggt	gaaggacca	ggactcacac	180
atcctggggc	tccaaggcag	aggagagggg	cctcaagaag	gtcaggagga	aaatccgtaa	240
caagcagtca	g					251

<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382

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cactgggagg	ggacatcctg	cagaaggtag	gagtgaacaa	acaccgctg	caggggaggg	180
gagagccctg	cggcacctgg	gggagcagag	ggagcagcac	ctgcccaggc	ctgggagggg	240
gggcctggag	ggcgtgagga	ggagcgaggg	ggctgcatgg	ctggagttag	ggatcagggg	300
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gaactgacca	taccagccc	tgcccacggc	cctccatggc	tccccaatgc	cctggagagg	720
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tagggggaga	aactgaaagc	tgattaatta	caggaggttt	gttcagggtc	cccaaaccac	1860
cgtcagattt	gatgatttcc	tagcaggact	tacagaaata	aagagctatc	atgctgtggg	1920
ttattatggg	ttgttacatt	gataggatac	atactgaaat	cagcaaacia	aacagatgta	1980
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gtgtccaggg	tttttactgg	gggtctgtag	gacgagtatg	gagtacttga	ataattgacc	2340
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cagatgtaca	aaaacaggga	ttcatcacia	atcccactct	tagcatgaag	ggctctggcat	2460
ggcccaaggc	cccaagtata	tcaaggcact	tgggcagaa	atgccaagga	atcaaatgtc	2520

```

atctcccagg agttattcaa gggtagagccc tttacttggg atgtacaggc tttgagcagt 2580
gcaggggctgc tgagtcaacc ttttattgta caggggatga gggaaaggga gaggatgagg 2640
aagccccccct ggggatttgg tttgggtcttg tgatcagggt gtctatgggg ctatccctac 2700
aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgcctt cttttcacac cattgggtgag ggaggggatta ccaccctggg 2820
gttatgaaga tggttgaaca cccacacat agcaccggag atatgagatc aacagtttct 2880
tagccataga gattcacagc ccagagcagg aggacgtgc acaccatgca ggatgacatg 2940
ggggatgctgc tcgggatttg tgtgaagaag caaggactgt tagaggcagg ctttatagta 3000
acaagacggt ggggcaaact ctgatttccg tgggggaatg tcatgggtctt gctttactaa 3060
gttttgagac tggcaggtag tgaaactcat taggctgaga accttgtgga atgcagctga 3120
cccagctgat agaggaagta gccagggtggg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaatctt 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtttt 3279

```

<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

```

Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
          5                      10                      15

```

```

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
          20                      25                      30

```

```

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
          35                      40                      45

```

```

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
          50                      55                      60

```

```

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
          65                      70                      75                      80

```

```

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
          85                      90                      95

```

```

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
          100                     105                     110

```

```

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
          115                     120                     125

```

```

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
          130                     135                     140

```

```

Ala Leu Glu Arg Gly His Leu Val Arg Glu
          145                     150

```

<210> 384

<211> 557

<212> DNA

<213> Homo sapiens

<400> 384

```

ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
aaagatgtgt tttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
ggggaagggt cctttttgca ttgccaagt ccataacat gagcactact ctaccatggg 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
acttaacctt gaaatggaaa gtcttgcaat cccatttgca ggatccgtct gtgcacatgc 300
ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
tccccaaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420
ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
aaaaaaaaaa aaaaaaa 557

```

<210> 385

<211> 337

<212> DNA

<213> Homo sapiens

<400> 385

```

ttccaggtg atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctgggt ccctgtcgtg gtctggatct 300
ctttggccac caattcccc tttccacat cccggca 337

```

<210> 386

<211> 300

<212> DNA

<213> Homo sapiens

<400> 386

```

gggcccgcga ccggcccagg cccgcctcgc cgagtcctcc tccccgggtg cctgcccga 60
gccgcctcgc cccagagggg gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
gcgaccttgg cccgaaggct ctagcaagga cccaccgacc ccagccggcg cggcgcgggc 180
gcggactttg cccggtgtgt gggcgggagc ggactgctg tccgcggacg ggcagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

```

<210> 387

<211> 537

<212> DNA

<213> Homo sapiens

<400> 387

```

gggccgagtc gggcaccaag ggactctttg caggcttcct tcctcggatc atcaaggctg 60
ccccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
tgaaccagga ccggcttctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180
ccacggatgg ggagagggca ggaggagacc cagccaagt ctttttcctc agcactgagg 240
gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggtc gtccctctgg 300
gcgcccagc acttcctcag acacaacttc ttctgctgc tccagtcgtg gggatcatca 360
cttaccacc cccaagttc aagacaaaat cttccagctg ccccttcctg gtttccctgt 420
gtttgtgta gctgggcag tctccaggaa ccaagaagcc ctgagcctgg ttagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaa aaaaaaa 537

```

<210> 388
 <211> 520
 <212> DNA
 <213> Homo sapiens

<400> 388
 aggataat ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60
 tgagggttaa ccagtttgca ttcccctaata gtggaaaaag taagaggact actcagcact 120
 gtttgaagat tgcctcttct acagcttctg agaatttgtt tatttcactt gccaaagtga 180
 ggacccctc cccaacatgc ccagcccccac ccctaagcat ggtcccttgt caccaggcaa 240
 ccaggaaact gctacttgtg gacctcacca gagaccagga gggtttggtt agctcacagg 300
 acttccccca cccagaaga ttagcatccc atactagact cataactcaac tcaactaggc 360
 tcataactcaa ttgatgggta ttagacaatt ccatttcttt ctggttatta taaacagaaa 420
 atctttcctc ttctcattac cagttaaaggc tcttggtatc tttctgttgg aatgatttct 480
 atgaacttgt cttattttaa tgggtgggtt ttttcttgt 520

<210> 389
 <211> 365
 <212> DNA
 <213> Homo sapiens

<400> 389
 cgttgcccca gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
 gagttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
 aacgactttc caaataatct caccagcgc ttccagctca ggcgtcctag aagcgtcttg 180
 aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
 cccaggaaac cttcagacta ccttcctctg ccttcagcaa ggggcgttgc ccacattctc 300
 tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360
 gggag

<210> 390
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(221)
 <223> n = A,T,C or G

<400> 390
 tgcctctcca tcctggcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
 tacacggnnt ctcatgggtg tggaacatct ctgcttgccg ttccaggaag gcctctggct 120
 gctctangag tctgannga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
 tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

<210> 391
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(325)

<223> n = A,T,C or G

<400> 391

```
tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180
naanttingat ntccanagcc ctaccatcn tagttctgct ctcccaccgg ntaccagccc 240
cactgcccag gaatcctaca gccagtaccc tgtcccagcg tctctaccta ccagtacgat 300
gagacctccg gctactacta tgacc                                     325
```

<210> 392

<211> 277

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(277)

<223> n = A,T,C or G

<400> 392

```
atattgttta actccttctt ttatatcttt taacattttc atggngaaaag gttcacatct 60
agtctcactt nggcnagngn ctctactttg agtctcttcc ccggcctggn ccagtngnaa 120
antaccanga accgncatgn cttaanaacn ncctggtttn tgggttnntc aatgactgca 180
tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240
ctgaggatac agcgccgcgt cctgtgttgc tggggaa                                     277
```

<210> 393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 393

```
actagtccag tgtggtggaa ttgcgggcg cgtegcagga caggtcagct gtctggctca 60
gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacgtt 120
ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
gagaaggtct agtttgctca tcagcattat catgatatca ggactgggta cttgggtaag 240
gaggggtcta ggagatctgt cctttttaga gacaccttac ttataatgaa gtatttgga 300
gggtggtttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360
catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaaact 420
ttctgcctca atgtttactg tgcccttgggt tttgctagtt tgtgttggtg aaaaaaaaaa 480
cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540
ttttgcctat caaaaaaaaaa aaaaaa                                     566
```

<210> 394

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(384)

<223> n = A,T,C or G

```

<400> 394
gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaatnng gaccggggcca aggttgact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
tccaagatt atcggggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
aggggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384

```

```

<210> 395
<211> 399
<212> DNA
<213> Homo sapiens

```

```

<400> 395
ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcattcatt cggaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcattct ctcactacag acctctgacc atgggacggg 360
gcagcctggg gagaccatcc aatcccaaat aaaatgcac 399

```

```

<210> 396
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G

```

```

<400> 396
tggagtntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggga gggagtgagg gataaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

```

```

<210> 397
<211> 100
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(100)
<223> n = A,T,C or G

```

```

<400> 397

```

```
actagtnacag tgtggtggaa ttgcgggccg cgtcgacctt naanccatct ctatagcaaa 60
tccatccccg ctcttggttg gtnacagaat gactgacaaa 100
```

```
<210> 398
<211> 278
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G
```

```
<400> 398
gcgccgcgct cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgagggtg actcatcatg 180
ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
ctatggccgc ttcattangt ggctcaacaa ggagaagg 278
```

```
<210> 399
<211> 298
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(298)
<223> n = A,T,C or G
```

```
<400> 399
acggagggtg aggaagcgc cctgggatcg anaggatggg tcctgncatt gaccncctcn 60
ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcggtgggt 120
ccgagatcga gcgcattggc ctggtcattg accgcatggg ctccgtggag cgcatgggt 180
ccggcattga gcgcattggc ccgctgggcc tcgaccacat ggctccanc attganccga 240
tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcatggg 298
```

```
<210> 400
<211> 548
<212> DNA
<213> Homo sapiens
```

```
<400> 400
acatcaacta ctctctcatt ttaaggtatg gcagttccct tcacccctt ttctgcctt 60
gtacatgtac atgtatgaaa ttctctctc ttaccgaact ctctccacac atcacaagg 120
caaagaacca cagccttaga agggtaaag ggcacctat gaaatgaaat ggtgatttct 180
tgagtctctt ttttccacgt ttaaggggcc atggcaggac ttagagttgc gaggtaagac 240
tgagaggggc tagagaatta tttcatacag gctttgaggg caccatgtc acttatccc 300
tataccctct caccatccc ttgtctactc tgatgccccc aagatgcaac tgggcagcta 360
gttgcccca taattctggg cctttgttgt ttgttttaat tacttgggca tcccaggaag 420
ctttccagt atctctacc atgggcccc ctctgggat caagccctc ccaggccctg 480
tccccagccc ctctgcccc agcccacccg cttgccttgg tgctcagccc tcccattggg 540
agcaggtt 548
```


<210> 401
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(355)
 <223> n = A,T,C or G

```
<400> 401
actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ctttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgtcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggg 300
cccttttgca ttgccaagtg ccataaccat gaggactact ctacatggn tctgc 355
```

<210> 402
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(407)
 <223> n = A,T,C or G

```
<400> 402
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatat ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtggtc ctgacctttg ataatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctcccttgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgatTTTT ctgacaactc cttttctgaa gttttactca tttccaa 407
```

<210> 403
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

```
<400> 403
cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaattc aggcaccaaa 60
tcctaagcaa gagccatggc atgggtgaaa tgcaaaagga gagtctggcc aatctacaaa 120
tagagaacaa gacctactca gtcattgaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacacaa 240
tcttaacaac gaccgaaacc cattatttac ataaacctcc attcggtaac catgttgaaa 300
gga 303
```

<210> 404
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 404
 aagtgtact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
 attgttaatg cactcattta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
 acattttcca ctcggtgttc catagttggt aagtgtatca gatgtgttgg gcatgtgaat 180
 ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(334)
 <223> n = A,T,C or G

<400> 405
 gagctgttat actgtgagtt ctactaggaa atcatcaaat ctgaggggtg tctggaggac 60
 ttcaatacac ctcccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
 tcatcccat cccatgccaa aggaagaccc tccctccttg gctcacagcc ttctctaggc 180
 ttcccagtgc ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240
 ctggtgcggt tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300
 cactctccac tctctcanng tggatccac ccct 334

<210> 406
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(216)
 <223> n = A,T,C or G

<400> 406
 tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60
 gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120
 acnaaacaca aattttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
 actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 407
 gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
 gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120

```

gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atggggcagg ttctgtagta aag          413

```

```

<210> 408
<211> 183
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tncettaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttcttggtta cccatgtact 180
ntt                                     183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tatttctgta agtcctgcta ggaaatcctt aaatctgacg 60
gtgggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcentatgc                                     250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatTTgc aggatccgtc tgtgcacatg cctctgtaga gaggcagcatt 120
cccagggacc ttggaaacag ttggcactgt aagggtgctt ctccccaaga cacatcctaa 180
aagggtgttg aatggtgaaa accgcttctt tctttattgc cccttcttat ttatgtgaac 240

```

nactggttg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tentgc 306

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a 261

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

<400> 412
gttcaatggt acctgacatt tctacaacac cccactcacc gatgtattcg ttgccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt ctgcccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tcaactgggta cattgaattc ccaaaactacc cangcaatta ccagccaac 240
a 241

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag ttcttagtac cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tctcatattg gaacctaaaa actctcttct tcttgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<210> 414

<211> 234
 <212> DNA
 <213> Homo sapiens

<400> 414
 actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60
 gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120
 gtgagccaag gagggaggggt cttcctttgg catgggatgg ggatgaagta aggagagggg 180
 ctggaccccc tggaagctga ttcactatgg ggggaggtgt attgaagtcc tcca 234

<210> 415
 <211> 217
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(217)
 <223> n = A,T,C or G

<400> 415
 gcataggatt aagactgagt atcttttcta cattctttta actttctaag gggcacttct 60
 caaaacacag accaggtagc aaatctccac tgctctaagg ntctcaccac cactttctca 120
 cacctagcaa tagtagaatt cagtcctact tctgaggcca gaagaatggg tcagaaaaat 180
 antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416
 <211> 213
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(213)
 <223> n = A,T,C or G

<400> 416
 atgcataatnt aaagganact gcctcgcttt tagaagacat ctggnetgct ctctgcatga 60
 ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120
 cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180
 atattggaac agatggagtc tctactacaa aag 213

<210> 417
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 417
 nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60

```

gtgggaaagg ctttactctg agttcaaadc ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaagggct 240
tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303

```

```

<210> 418
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 418
tttttgccgg tgggtggggca gggacgggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcactacaac ccctgctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacaccca gctagttttt 180
gtatttttag tagagacagg gtttcaccat gttggccagg ctggtctcaa actcctnacc 240
tcagnggtca ggctgggtct aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

```

<210> 419
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G

```

```

<400> 419
cctcctcaag acggcctgtg gtccgctcc cggcaaccaa gaagcctgca gtgccatatg 60
acccctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120
cttgtttcc ctctgtggct ccattcatag cacagtgtgt gcactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggt gtgccaggca 240
ccggttctcc agccaccaac ctcaactcgt cccgcaaagt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctalc agccatcacg 360
tggcagccac tcnngctgtg tcgacgcgg 389

```

```

<210> 420
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 420
gttcctccta actcctgcc aaaaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
gtcccattga cacttttccc actgaccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300

```

gatatagaaa attcttgaat gattcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccc 408

<210> 421

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(352)

<223> n = A,T,C or G

<400> 421

gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacaggctc tttttgggtc cttcttctcc accacnatac acttgacgtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacagggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcattgc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352

<210> 422

<211> 337

<212> DNA

<213> Homo sapiens

<400> 422

atgccaccat gctggcaatg cagcgggaggc tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgcccgaaat tgccgatgcc agccgaagcg gtggtcaagg 120
gcatagacaa ggtgcccggc atcgccggcg cgtcaatcct ggccaaggtc agccgtgac 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcgccggg cataagggtc 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

<210> 423

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(310)

<223> n = A,T,C or G

<400> 423

gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tcactgacag aacaggctct ttttgggtcc ttcttctcca ccacgatata cttgcagtc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtg anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcattgtc cacagttgtc aagtctgccc 300
tccgagttta 310

<210> 424

<211> 370

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(370)
 <223> n = A,T,C or G

<400> 424
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
 ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
 cactgacaga acagggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180
 ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacagggtga gaaacatcct 240
 gggtgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
 cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
 tccgtcgacg 370

<210> 425
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(216)
 <223> n = A,T,C or G

<400> 425
 aattgctatn ntttttttg ccaactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60
 taacaacnca acatcaaggn aananaaca ggaatggntg actntgcata aatnggccga 120
 anattatcca ttatnttaag gggtgacttc aggntacagc acacagacaa acatgcccag 180
 gaggnntntca ggaccgctcg atgtnttntg aggagg 216

<210> 426
 <211> 596
 <212> DNA
 <213> Homo sapiens

<400> 426
 cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60
 tggcagtcag tgatggaagg gtgttctgat cattccgact gccccagggt tgcgtggcca 120
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180
 gctgtccttg tattttgatt aacctaattg ccttcccagc acgactcgga ttcagctgga 240
 gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtta 300
 ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
 aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420
 ggtggatggc cttttcagct ttaacccaat ttgcactgcc ttggaagtgt agccaggaga 480
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattgggt tactgcctga 540
 gtcccgtctg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427
 <211> 107
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(107)
 <223> n = A,T,C or G

<400> 427
 gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggnoccag 60
 cccgggagca gccttanaga gctcctgttt gactgcccgg ctcagng 107

<210> 428
 <211> 38
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(38)
 <223> n = A,T,C or G

<400> 428
 gaacttcna anaangactt tattcactat ttacatt 38

<210> 429
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 429
 ctttgctgga cggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60
 attgaagagc ggctgcagcc ctgcgggttca gattaaaatc cgagaattgt atagacgccg 120
 atatccacga actcttgaag gactttctga ttatccaca atcaaatcat cggttttcag 180
 tttggatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcgtt 240
 gccttccact tcagttacac ctcaactcacc atcctctcct gttgggttctg tgctgcttca 300
 agatactaag cccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360
 tgatgtgcag ttaaaaaatc tgcccttita tgatgtcctt gatgttctca tcaagcccac 420
 gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480
 acctcaacaa gtttagagaga tatgcatatc cagggatttt ttgccagggtg gtaggagaga 540
 ttat 544

<210> 430
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

<400> 430
 cttatcncaa tggggctccc aaacttggct gtgcagtga aactccgggg gaattttgaa 60
 gaacactgac acccatcttc caccgccaca ctctgattta attgggctgc agtgagaaca 120
 gagcatcaat ttaaaaagct gcccagaatg ttntcctggg cagcgttgtg atctttgccn 180

```

ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgagggg gttccaggag 240
attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
caagaaggag gactgcaagt atatcgtggg ggagaagaag gacccaaaaa agacctgttc 360
tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
cattctctc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
ttttgagcaa aaaaaaaaaa aaaaaaa 507

```

```

<210> 431
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(392)
<223> n = A,T,C or G

```

```

<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctgggtt ttccaacaga 240
catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgtagg taaaatgtac aacttctgga tctatgcaga cattgaagg 360
gcaatgagtc tggcttttac tctgctgttt ct 392

```

```

<210> 432
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(387)
<223> n = A,T,C or G

```

```

<400> 432
ggtatccta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
ngtagtccaa gctctcgna gtccagccac tgnгааacat gctcccttta gattaacctc 180
gtggacnctn ttgtgnatt gtctgaactg tagngcctg tatcttgctt ctgtctgnga 240
attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgta aggaccggga 360
acaacgtata gaacactgga gtccttt 387

```

```

<210> 433
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G

```

```

<400> 433
ttcaactagc anagaanact gcttcagggn gtgtaaaatg aaaggottcc acgcagttat 60
ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagnagg ntctctgtnt gccactggg 240
tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281

```

```

<210> 434
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<400> 434
ttttaaaata agcatttagt gctcagtcct tactgagtag tctttctctc cctcctctctg 60
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcaactgtg atgtatat 120
tggtgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtgaa tccatcttgc 180
tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acagggtgaat tggatggttc tcagaaccat ttcacccaga 300
cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaaccc 360
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
ttta 484

```

```

<210> 435
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<400> 435
gcgcgcgtca gagcaggtea ctttctgcct tccacgtcct ccttcaagga agcccatgt 60
gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
cgatcgggca agtaaaccac ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
atgggcctgt ggggaggggg caagatagat gagggggagc ggcatgggtc ggggtgacct 240
cttgagagaga ggaaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggcct 300
ggtagagacc tttgggggtc tggaacctct ggactcccca tgctctaact cccacactct 360
gctatcagaa acttaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
aaac 424

```

```

<210> 436
<211> 667
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(667)
<223> n = A,T,C or G

```

```

<400> 436
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcttggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataaggggtc 120
agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggtg tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240

```

```

atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatggt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattcccttta tggggtcagt gggaaagggt tcaatgggac ttcgggtctc atgccgaaac 540
accaaagtca caaacttcaa ctcttggt agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag 667

```

```

<210> 437
<211> 693
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cggggtttgt 120
taaagctcag gttaggagggc tgataagctt ggaagggaact tcagacagct ttttcagatc 180
ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtactcct ctattttcac ccctcttgct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc tttagctttc 420
atgtgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaaact gctgttgctc ctgaggtggg gaaagacaga tatagagctt acagtattta 540
tctattttct aggcactgag ggctgtgggg taccttgtgg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc 693

```

```

<210> 438
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 438
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgaggagg ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctggtgg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

```

<210> 439
<211> 431
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

```

```

<400> 439
gttcctnnta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggtc tcttggtttc gctttttttc tggctagacc 120

```

```

gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgaccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag t 431

```

```

<210> 440
<211> 523
<212> DNA
<213> Homo sapiens

```

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actgaaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcccttgg tcttggaaac tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcactctga tgagaacaag cta 523

```

```

<210> 441
<211> 430
<212> DNA
<213> Homo sapiens

```

```

<400> 441
gttctctcta actcctgcc a gaaacagctc tcttcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gcttttttcc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgaccca taaaggaatc ctcatggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag 430

```

```

<210> 442
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<400> 442
ctaaggaatt agtagtggtc ccatcacttg tttggagtggt gctatttctaa aagattttga 60
tttcttgtaa tgacaattat attttaactt tgggtggggga aagagttata ggaccacagt 120
cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atgggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc 362

```

```

<210> 443
<211> 624

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(624)
 <223> n = A,T,C or G

<400> 443
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
 ttgaaagaat taaattcaga ggaggggaga gaaagagtac tcagtaggga ctgagcacta 120
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
 tgctggctag tactccgggc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg cttcctgttt 300
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtag 420
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaata 480
 agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaaga 540
 ngatgcttgt gctgggtcca aatcttgggc tactatgacc ttggcccaat tatttaaact 600
 ttgtccctat ctgctaaaca gatc 624

<210> 444
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 444
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
 ttcattgcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaat ccttgaatgc 180
 tgcttaatgt gagaggttgg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
 gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360
 ggaggcacca gggcataagt gagtagactt atggctcgacg cggccgcgaa tttagtagta 420
 gtaga 425

<210> 445
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

<400> 445
 catgtttatg nttttggatt actttgggca cctagtgttt ctaaatcgtc tatcattcctt 60
 ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatcctt caagtctttg 120

```

tgaaattctt  tgcattgtggc  agattattgg  atgtagtttc  ctttaactag  catataaatc  180
tgggtgtgtt  cagataaatg  aacagcaaaa  tgtggtggaa  ttaccatttg  gaacattgtg  240
aatgaaaaat  tgtgtctcta  gattatgtaa  caaataacta  tttcctaacc  attgatcttt  300
ggatttttat  aatcctactc  acaaagtact  aggcctctcc  tcttgatatt  tgaagcagtg  360
tgggtgctgg  attgataaaa  aaaaaaaaaa  tcgacgcggc  cgcgaattta  gtag          414

```

```

<210> 446
<211> 631
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

```

```

<400> 446
acaaattaga  anaaagtgcc  agagaacacc  acataccttg  tccggaacat  tacaatggct  60
tctgcatgca  tgggaagtgt  gagcattcta  tcaatatgca  ggagccatct  tgcaggtgtg  120
atgctgggta  tactggacaa  cactgtgaaa  aaaaggacta  cagtgttcta  tacgttggtc  180
ccggtcctgt  acgatttcag  tatgtcttaa  tcgcagctgt  gattggaaca  attcagattg  240
ctgtcatctg  tgtggtggtc  ctctgcatca  caagggccaa  actttaggta  atagcattgg  300
actgagattt  gtaaactttc  caaccttcca  ggaaatgccc  cagaagcaac  agaattcaca  360
gacagaagca  aaatacaggg  cactacagtt  cagacaatac  aacaagagcg  tccacgaggt  420
taatctaaag  ggagcatggt  tcacagtggc  tggactaccg  agagcttgga  ctacacaata  480
cagtattata  gacaaaagaa  taagacaaga  gatctacaca  tgttgccctg  catttggtgt  540
aatctacacc  aatgaaaaca  tgtactacag  ctatatttga  ttatgtatgg  atatatttga  600
aatagtatac  attgtcttga  tgttttttct  g              631

```

```

<210> 447
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 447
ccttgaggaaa  antntcacia  tataaagggt  cgtagacttt  actccaaatt  ccaaaaaggt  60
cctggccatg  taatcctgaa  agttttccca  aggtagctat  aaaatcctta  taagggtgca  120
gcctcttctg  gaattcctct  gatttcaaag  tctcaactct  aagttcttga  aaacgagggc  180
agttcctgaa  aggcaagtat  agcaactgat  cttcagaaa  aggaactgtg  tgcaccggga  240
tgggctgcca  gagtaggata  ggattccaga  tgcctgacac  ttctggggga  aacagggtct  300
ccagggttgt  catagcactc  atcaaagtcc  ggtcaacgtc  tgtgcttcga  atataaacct  360
gttcattgtt  ataggactca  ttcaagaatt  ttctatatct  ctttcttata  tactctccaa  420
gttcataatg  ctgctccatg  cccagctggg  tgagttggcc  aaatccttgt  ggccatgagg  480
attcctttat  ggggtcagtg  ggaaaggtgt  caatgggact  tcggtctcca  tgccgaaaca  540
ccaaagtcac  aaacttcaac  tccttggtca  gtacacttcg  gtcta          585

```

```

<210> 448
<211> 93
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(93)

<223> n = A,T,C or G

<400> 448

```
tgctcgtggg tcattctgan nnccgaactg acntgccag ccctgccgan gggccnccat 60
ggctccctag tgccctggag agganggggc tag 93
```

<210> 449

<211> 706

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(706)

<223> n = A,T,C or G

<400> 449

```
ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
ttctgancac cgaactgacc atgccagccc tgccgatggc cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180
cggggacagc atcctgcaga tggtcgggcg cgtcccatte gccattcagg ctgcgcaact 240
gttggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtcncga cgttgtaaaa 360
cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcatgcacg 420
cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480
cgacgtggga tcnccactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggtgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncccca 660
gcatggatga cagagtgaia ctccatctta aaaaaaaaaa aaaaaa 706
```

<210> 450

<211> 493

<212> DNA

<213> Homo sapiens

<400> 450

```
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttta aaggtaaaaa aacataaaaa gaaatatact atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccata tcaactgcag 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtccagg agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300
agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480
gcgaatttag tag 493
```

<210> 451

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 451

```

gggcgcgtcc cattcgccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaagggcgat taagttgggt 120
aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggatccnc actgagagag 300
tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcacaa 360
cgcncacagac actcacagct actcaggagg ctgagaacag gttgaacctg ggagggtggag 420
gttgcaatga gctgagatca ggccnctgcn cccagcatg gatgacagag tgaaactcca 480
tcttaaaaaa aaaaaaaaaa a 501

```

<210> 452

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(51)

<223> n = A,T,C or G

<400> 452

```

agacggtttc accnttacaa cnccttttag gatgggnntt ggggagcaag c 51

```

<210> 453

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(317)

<223> n = A,T,C or G

<400> 453

```

tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaaccat 120
ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
cccaccaaac tttatTTTTt tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
tacccatgtc tttatta 317

```

<210> 454

<211> 231

<212> DNA

<213> Homo sapiens

<400> 454

```
ttcgagggtac aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cagctctttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231
```

<210> 455

<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

```
taccaaagag ggcataataa tcagtctcac agtagggttc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttcctttg gcategacca cattcagggg 180
caaagaatth ctcatagcac agctcacaat acagggtctc tttctcctct a 231
```

<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

```
ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcggt attattcttg gagaaacctt gtctgtttac tgtaaccttt 120
tgcaactcaa ttccctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt ccctgactga cattgccaag t 231
```

<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 457

```
cgagggtaccc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60
gcatttcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgatth tatttagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catthcctct gaggtgtcgc tggcttttgt g 231
```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

```
aggtctgggt cccccactt ccaactccct ctactctctc taggactggg ctgggccaag 60
agaagagggg tggttaggga agccgttgag acctgaagcc ccacctota ccttccttca 120
acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180
ggtcctgggt taggcattth ggggggccag accccaggag aagaagattc t 231
```

<210> 459
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 459
 ggtaccgagg ctgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
 ccttcgcgaa acctgtggtg gcccaccagt cctaacggga caggacagag agacagagca 120
 gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
 actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 460
 gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60
 cctatcaccc tattcttggg ggctgtttct tcacagtgat catgaagcct agcagcaaat 120
 cccacctccc cacacgcaca cggccagcct ggagcccaca gaagggtcct cctgcagcca 180
 gtggagcttg gtccagcctc cagtccaccc ctaccaggct taaggataga a 231

<210> 461
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 461
 cgaggtttga gaagctctaa tgtgcagggg agccgagaag caggcggcct agggaggggc 60
 gcgtgtgctc cagaagagtg tgtgcatgcc agaggggaaa caggcgcctg tgtgtcctgg 120
 gtgggggttca gtgaggagtg ggaaattggt tcagcagAAC caagccgttg ggtgaataag 180
 agggggattc catggcactg atagagccct atagtctcag agctgggaat t 231

<210> 462
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 462
 aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60
 gggatcatgca agtataaaaa ttaaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
 gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180
 tctagaggag gtattttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 463
 tactccagcc tggtagacaga gcgagaccct atcaccgccc cccacccac caaaaaaaaa 60
 actgagtaga cagggtgtcct cttggcatgg taagtcttaa gtccctccc agatctgtga 120
 catttgacag gtgtcttttc ctctggacct cggtgtcccc atctgagtga gaaaaggcag 180

tggggaggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

<210> 464

<211> 231

<212> DNA

<213> Homo sapiens

<400> 464

gtactctaag attttatcta agttgccttt tctgggtggg aaagttaaac cttagtgact 60
aaggacatca catatgaaga atgtttaagt tggaggtggc aacgtgaatt gcaaacaggg 120
cctgcttcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180
ggtgccagcg caccagctag atgctctgta acttctaggc cccattttcc c 231

<210> 465

<211> 231

<212> DNA

<213> Homo sapiens

<400> 465

catgttggtg tagctgtggt aatgctgggt gcatctcaga cagggttaac ttcagctcct 60
gtggcaaat agcaacaaat tctgacatca tatttatggt ttctgtatct ttgttgatga 120
aggatggcac aatttttgc tgtgttcata atatactcag attagttcag ctccatcaga 180
taaactggag acatgcagga cattagggta gtgttgtagc tctggtaatg a 231

<210> 466

<211> 231

<212> DNA

<213> Homo sapiens

<400> 466

caggtaacct tttccattgg atactgtgct agcaagcatg ctctccgggg tttttttaat 60
ggccttcgaa cagaacttgc cacataccca ggtataatag tttctaacat ttgccagga 120
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<211> 311

<212> DNA

<213> Homo sapiens

<400> 467

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<211> 3112

<212> DNA

<213> Homo sapiens

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<211> 2229
 <212> DNA
 <213> Homo sapiens

<400> 469

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 <211> 2426
 <212> DNA
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<400> 470

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<211> 812

<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<211> 5829
<212> DNA
<213> Homo sapiens

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<210> 474
<211> 1594
<212> DNA
<213> Homo sapiens

```

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<400> 474
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cgtttttcat ttgttgtgtt actcatgttt tacttatgag ggatatatat aacttccact 300
gttttcagaa ttattgtatg cagtcagtat gagaatgcaa tttaagtttc cttgatgctt 360
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gaaggggaaga ggccctggggc tggagtattc gctt 1594

```

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<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

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```

<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G

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catttggtgt gttactcatg ttttacttat ggggggatat atataacttc cgctgttttc 480
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```

aaaaaaaaaa aaaa

2414

<210> 476

<211> 3434

<212> DNA

<213> Homo sapiens

<400> 476

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<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

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Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
                    5                      10                      15

```

```

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
                    20                      25                      30

```

```

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
                    35                      40                      45

```

```

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
                    50                      55                      60

```

```

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
                    65                      70                      75                      80

```

```

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
                    85                      90                      95

```

```

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
                    100                      105                      110

```

```

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
                    115                      120                      125

```

```

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
                    130                      135                      140

```

<210> 478

<211> 143

<212> PRT

<213> Homo sapiens

<400> 478

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Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln

```

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Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr	20		25		30
Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr	35		40		45
His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr	50		55		60
Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr	65		70		75
Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser	85		90		95
His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp	100		105		110
Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser	115		120		125
His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val	130		135		140

<210> 479
 <211> 222
 <212> PRT
 <213> Homo sapiens

	5		10		15
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln	5		10		15
Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr	20		25		30
Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr	35		40		45
His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr	50		55		60
Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr	65		70		75
Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser	85		90		95
His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val	100		105		110

Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
 115 120 125

Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
 130 135 140

Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
 145 150 155 160

Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
 165 170 175

Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp
 180 185 190

Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
 195 200 205

Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
 210 215 220

<210> 480

<211> 144

<212> PRT

<213> Homo sapiens

<400> 480

Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
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Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
 20 25 30

Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
 35 40 45

Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
 50 55 60

Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
 65 70 75 80

Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
 85 90 95

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
 100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
 115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
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 Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30
 Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45
 Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60
 Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80
 Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95
 Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110
 Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125
 Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140
 Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160
 Trp Leu Ser Arg Gly Arg Pro
 165

<210> 482
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 482
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Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
 20 25 30

Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
 35 40 45

Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
 50 55 60

Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
 65 70 75 80

Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
 85 90 95

Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
 100 105 110

Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
 115 120 125

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
 130 135 140

<210> 483

<211> 143

<212> PRT

<213> Homo sapiens

<400> 483

Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
 5 10 15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
 20 25 30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
 85 90 95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val
 100 105 110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
 115 120 125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
 130 135 140

<210> 484
 <211> 30
 <212> PRT
 <213> Homo Sapien

<400> 484
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 485
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 485
 gggaagctta tcacctatgt gccgcctctg c 31

<210> 486
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 486
 gcgaattctc acgctgagta tttggcc 27

<210> 487
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 487
 cccgaattct tagctgccca tccgaacgcc ttcattc 36

<210> 488
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 488

gggaagcttc ttccccggct gcaccagctg tgc

33

<210> 489

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 489

Met	Asp	Arg	Leu	Val	Gln	Arg	Phe	Gly	Thr	Arg	Ala	Val	Tyr	Leu	Ala
1				5					10					15	

Ser Val Ala

<210> 490

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 490

Tyr	Leu	Ala	Ser	Val	Ala	Ala	Phe	Pro	Val	Ala	Ala	Gly	Ala	Thr	Cys
1				5					10					15	

Leu Ser His Ser
20

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 491

Thr	Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr	Ala	Ser	Ala	Ala	Leu
1				5					10					15	

Thr Gly Phe Thr
20

<210> 492

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 492
 Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr
 1 5 10 15
 Leu Ala Ser Leu
 20

<210> 493
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 493
 Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro
 1 5 10 15
 Lys Tyr Arg Gly
 20

<210> 494
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 494
 Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
 1 5 10 15
 Leu Met Ile Ser
 20

<210> 495
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 495
 Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro
 1 5 10 15
 Phe Pro Asn Gly
 20

<210> 496
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 496

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5					10					15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 497

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 497

Leu	Leu	Pro	Pro	Pro	Pro	Ala	Leu	Cys	Gly	Ala	Ser	Ala	Cys	Asp	Val
1				5					10					15	
Ser	Val	Arg	Val												
			20												

<210> 498

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 498

Asp	Val	Ser	Val	Arg	Val	Val	Val	Gly	Glu	Pro	Thr	Glu	Ala	Arg	Val
1				5					10					15	
Val	Pro	Gly	Arg												
			20												

<210> 499

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 499

Arg	Val	Val	Pro	Gly	Arg	Gly	Ile	Cys	Leu	Asp	Leu	Ala	Ile	Leu	Asp
1				5					10					15	
Ser	Ala	Phe	Leu												
			20												

<210> 500

<211> 20

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<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 500
Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1             5             10             15
Gly Ser Ile Val
                20

<210> 501
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 501
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1             5             10             15
Val Ser Ala Ala
                20

<210> 502
<211> 414
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(414)
<223> n=A,T,C or G

<400> 502
caccatggag acaggcctgc gctggctttt cctggtcgct gtgctcaaag gtgtccaatg      60
tcagtcggtg gaggagtccg ggggtcgcct ggtcacgcct gggacacctt tgacantcac      120
ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc      180
agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc      240
gaaaggccga ttnatnatntt ccaaaacctn gaccacgggtg gatttgaaaa tgaccagtcc      300
gacaaccgag gacacggcca cctatntttg tggcagaatg aatactggta atagtggttg      360
gaagaatatt tggggcccag gcaccctggt caccgtntcc tcaggccaac ctaa          414

<210> 503
<211> 379
<212> DNA
<213> Homo Sapien

<220>
<221> misc_feature
<222> (1)...(379)
<223> n=A,T,C or G

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<400> 503
 atnccgatggg gcttgggtcaa aggtgtccag tgtcagtcgg tggaggagtc cgggggtcgc 60
 ctgggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt 120
 agctatggag tgagctgggt ccgccaggct ccagggaagg ggctgggnata catcggatca 180
 ttagtagtag tggtagattt tacgcgagct gggcgaaagg ccgattcacc atttccaaaa 240
 cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt 300
 tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctggtcaccg 360
 tntccttagg gcaacctaa 379

<210> 504
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 504
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
 1 5 10 15
 Asn Ser Ala

<210> 505
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 505
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
 1 5 10 15
 Asn Thr Ala Asn
 20

<210> 506
 <211> 407
 <212> DNA
 <213> Homo Sapien

<400> 506
 atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaagggtg ccagtgtcag 60
 tcgctggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgc 120
 accgtctctg gattctccct cagtagcaat gcaatgatct ggggtcgcga ggctccaggg 180
 aaggggctgg aatacatcgg atacattagt tatgggtggt ggcatacta cgcgagctgg 240
 gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300
 ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgatt tagtggtatg 360
 ttgtggggcc caggcaccct gggtaccgct tcctcagggc aacctaa 407

<210> 507

<211> 422
 <212> DNA
 <213> Homo Sapien

<400> 507
 atggagacag gcctgcgctg gcttctcctg gtcgctgtgc tcaaaggtgt ccagtgtcag 60
 tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt 120
 acagtctctg gattctccct cagcaactac gacctgaact gggcccgcca ggctccaggg 180
 aaggggctgg aatggatcgg gatcattaat tatgttggtg ggacggacta cgcgaactgg 240
 gcaaaaggcc ggttcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300
 ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
 ggtccgtgct tgcgcactct gggcccaggc accctgggtc ccgtctcctt agggcaacct 420
 aa 422

<210> 508
 <211> 411
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n=A,T,C or G

<400> 508
 atggagacag gcctcgctgg cttctcctgg tcgctgtgct caaaggtgtc cagtgtcagt 60
 cggtggagga gtccgggggt cgcctgggtc acgcctggga cccctgaca ctcacctgca 120
 cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccaggga 180
 aggggctgga atggatcgg atcattggta ctccctgggtg cacatactac gcgaggtggg 240
 cgaaaggccg attcaccatc tccaaaacct cgaccacggg gcatntgaaa atcnccagtc 300
 cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
 ctgggttatta taaaatctgg ggcccaggca ccttggtcac cgtctccttg g 411

<210> 509
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 509
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 510
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 510
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 1 5 10 15

<210> 511
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 511

Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys
 1 5 10 15

<210> 512
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 512
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu
 1 5 10 15

<210> 513
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 513
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu
 1 5 10 15

<210> 514
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 514
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 515

<211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 515
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
 1 5 10 15

<210> 516
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 516
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
 1 5 10 15

<210> 517
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 517
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
 1 5 10 15

<210> 518
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 518
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 1 5 10 15

<210> 519
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 519
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
 1 5 10 15
 Gly

<210> 520
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 520
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly
 20 25

<210> 521
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 521
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
 1 5 10 15
 Pro Pro Pro Pro Ala
 20

<210> 522
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 522
 Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp
 1 5 10 15
 Phe Thr Gln Val
 20

<210> 523
 <211> 254
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Made in a lab

<220>

<221> VARIANT

<222> (1)...(254)

<223> Xaa = any amino acid

<400> 523

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Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1      5      10      15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
      20      25      30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
      35      40      45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
      50      55      60
Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
      65      70      75      80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
      85      90      95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
      100     105     110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
      115     120     125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
      130     135     140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
      145     150     155     160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
      165     170     175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
      180     185     190
Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
      195     200     205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
      210     215     220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
      225     230     235     240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
      245     250

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<210> 524

<211> 765

<212> DNA

<213> Homo sapien

<400> 524

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atggccacag caggaaatcc ctggggctgg ttcttggggt acctcatcct tgggtgtcgca      60
ggatcgctcg tctctggtag ctgcagccaa atcataaacg gcgaggactg cagccgcgac      120
tcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgctc gggcgctcctg      180
gtgcattccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg      240
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggg ggaggccagc      300
ctctccgtac ggcaccaga gtacaacaga cccttgctcg ctaacgacct catgctcacc      360

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aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 420
tgccctaccg cggggaactc ttgcctcggt tctggctggg gtctgctggc gaacggcaga 480
atgcctaccg tgctgcagtg cgtgaacgtg tccgtggtgt ctgaggaggt ctgcagtaag 540
ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 600
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660
gtgtctttcg gaaaagcccc gtgtggccaa gttggcgtgc caggtgtcta caccaacctc 720
tgcaaattca ctgagtggat agagaaaacc gtccaggcca gttaa 765

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<210> 525

<211> 254

<212> PRT

<213> Homo sapien

<400> 525

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Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1          5          10          15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
          20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
          35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
          50          55          60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          245          250

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<210> 526

<211> 963

<212> DNA

<213> Homo sapiens

<400> 526

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atgagttcct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggattagag 60
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aactgcatcg tggcttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgcttgcagc cattgacctg gccttatcca catccaccat gcctaagatc 240
cttgcccttt tctggtttga ttcccagagag attagctttg aggctgtct taccagatg 300
ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360
cgttatgtgg ccatctgcca cccactgcgc catgctgcag tgctcaacaa tacagtaaca 420
gccagattg gcatcgaggc tgtggtccgc ggatccctct tttttttccc actgcctctg 480
ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcactccta ttgtgtccac 540
caggatgtaa tgaagttggc ctatgcagac actttgccca atgtggtata tggctttact 600
gccattctgc tggatcatggg cgtggacgta atgttcatct ccttgtccta ttttctgata 660
atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaacctgt 720
gtgtcacaca ttggtgtggt actgccttc tatgtgccac ttattggcct ctcatgtgta 780
caccgctttg gaaacagcct tcattcccatt gtgcgtgttg tcatgggtga catctacctg 840
ctgctgcctc ctgtcatcaa tcccatcatc tatggtgcc aaccaaaca gatcagaaca 900
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tga

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<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

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Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
      5              10              15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
      20              25              30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
      35              40              45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
      50              55              60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
      65              70              75              80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
      85              90              95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100             105             110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115             120             125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
      130             135             140

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
      145             150             155             160

```

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser
 165 170 175
 Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu
 180 185 190
 Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val
 195 200 205
 Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val
 210 215 220
 Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys
 225 230 235 240
 Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly
 245 250 255
 Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg
 260 265 270
 Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro
 275 280 285
 Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala
 290 295 300
 Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
 305 310 315 320

<210> 528
 <211> 20
 <212> DNA
 <213> Homo Sapien

<400> 528
 actatggtcc agaggctgtg 20

<210> 529
 <211> 20
 <212> DNA
 <213> Homo Sapien

<400> 529
 atcacctatg tgccgcctct 20

<210> 530
 <211> 1852
 <212> DNA
 <213> Homo sapiens
 <400> 530
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aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
tttcctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gctgtgttta gaccggaaga gctggggtgt ttctcaggag ccaccgtgtg 300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccctgtcc 360
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagtctctc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
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ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
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Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
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Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
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Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
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Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
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Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
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Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
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Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
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Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
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Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
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Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
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Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
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Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
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Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp

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265

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Val Ile Ile Met
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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His
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Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp
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Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
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 130 135 140
 Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
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 Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
 165 170 175
 Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
 180 185 190
 Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
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 Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
 210 215 220
 Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
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<400> 536

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<210> 537

<211> 1228

<212> PRT

<213> Homo sapiens

<400> 537

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      20             25             30
Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu
      35             40             45

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Pro	Glu	Asp	Arg	Ser	Gln	His	Leu	Gly	Glu	Glu	Leu	Gln	Gly	Phe	Trp
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65					70				75						80
Thr	Arg	Ala	Ile	Ile	Lys	Cys	Tyr	Trp	Lys	Ser	Tyr	Leu	Val	Leu	Gly
				85					90					95	
Ile	Phe	Thr	Leu	Ile	Glu	Glu	Ser	Ala	Lys	Val	Ile	Gln	Pro	Ile	Phe
			100					105					110		
Leu	Gly	Lys	Ile	Ile	Asn	Tyr	Phe	Glu	Asn	Tyr	Asp	Pro	Met	Asp	Ser
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Val	Ala	Leu	Asn	Thr	Ala	Tyr	Ala	Tyr	Ala	Thr	Val	Leu	Thr	Phe	Cys
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Thr	Leu	Ile	Leu	Ala	Ile	Leu	His	His	Leu	Tyr	Phe	Tyr	His	Val	Gln
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Cys	Ala	Gly	Met	Arg	Leu	Arg	Val	Ala	Met	Cys	His	Met	Ile	Tyr	Arg
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Lys	Ala	Leu	Arg	Leu	Ser	Asn	Met	Ala	Met	Gly	Lys	Thr	Thr	Thr	Gly
			180					185						190	
Gln	Ile	Val	Asn	Leu	Leu	Ser	Asn	Asp	Val	Asn	Lys	Phe	Asp	Gln	Val
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Leu	Phe	Ser	Ser	Leu	Arg	Ser	Lys	Thr	Ala	Thr	Phe	Thr	Asp	Ala	Arg
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Ile	Arg	Thr	Met	Asn	Glu	Val	Ile	Thr	Gly	Ile	Arg	Ile	Ile	Lys	Met
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Tyr	Ala	Trp	Glu	Lys	Ser	Phe	Ser	Asn	Leu	Ile	Thr	Asn	Leu	Arg	Lys
		290				295					300				
Lys	Glu	Ile	Ser	Lys	Ile	Leu	Arg	Ser	Ser	Cys	Leu	Arg	Gly	Met	Asn
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Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile	Val	Phe	Val	Thr	Phe
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Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr	Ala	Ser	Arg	Val	Phe
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Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu	Thr	Val	Thr	Leu	Phe
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Phe	Pro	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala	Ile	Val	Ser	Ile	Arg
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Arg	Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile	Ser	Gln	Arg	Asn	Arg
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Gln	Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His	Val	Gln	Asp	Phe	Thr
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Ala	Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr	Leu	Gln	Gly	Leu	Ser
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Phe	Thr	Val	Arg	Pro	Gly	Glu	Leu	Ala	Val	Val	Gly	Pro	Val	Gly	
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Ala	Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Val	Leu	Gly	Glu	Leu	Ala	Pro
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Ser	His	Gly	Leu	Val	Ser	Val	His	Gly	Arg	Ile	Ala	Tyr	Val	Ser	Gln
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Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly
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 Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala
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 515 520 525
 Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn
 530 535 540
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 545 550 555 560
 Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu
 565 570 575
 Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His
 580 585 590
 Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp
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 Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly
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 675 680 685
 Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr
 690 695 700
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 Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser
 725 730 735
 Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly
 740 745 750
 Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr
 755 760 765
 Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu
 770 775 780
 Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys
 785 790 795 800
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 805 810 815
 Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu
 820 825 830
 Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln Thr Leu Leu
 835 840 845
 Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile
 850 855 860
 Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg
 865 870 875 880
 Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr
 885 890 895
 Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp
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    930                      935                      940
Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val
945                      950                      955                      960
Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala
    965                      970                      975
Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met
    980                      985                      990
Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile
    995                      1000                      1005
Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro
    1010                      1015                      1020
Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val
1025                      1030                      1035                      1040
Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu
    1045                      1050                      1055
Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly
    1060                      1065                      1070
Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu
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Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu
    1090                      1095                      1100
Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile
1105                      1110                      1115                      1120
Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp
    1125                      1130                      1135
Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu
    1140                      1145                      1150
Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr
    1155                      1160                      1165
Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu
    1170                      1175                      1180
Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
1185                      1190                      1195                      1200
Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
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<210> 538

<211> 1261

<212> PRT

<213> Homo sapiens

<400> 538

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Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser
    35                      40                      45
Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val

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Val	Leu	Thr	Phe	Cys	Thr	Leu	Ile	Leu	Ala	Ile	Leu	His	His	Leu	Tyr	
Phe	Tyr	His	Val	Gln	Cys	Ala	Gly	Met	Arg	Leu	Arg	Val	Ala	Met	Cys	
His	Met	Ile	Tyr	Arg	Lys	Ala	Leu	Arg	Leu	Ser	Asn	Met	Ala	Met	Gly	
Lys 145	Thr	Thr	Thr	Gly	Gln	Ile	Val	Asn	Leu	Leu	Ser	Asn	Asp	Val	Asn	
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Ser	Cys	Leu	Ala	Gly	Met	Ala	Val	Leu	Ile	Ile	Leu	Leu	Pro	Leu	Gln	
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Ile	Val	Ser	Ile	Arg	Arg	Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile	
Ser	Gln	Arg	Asn	Arg	Gln	Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His	
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			500					505					510				
Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg		
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Phe	Leu	Lys	Ser	Gly	Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn		
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Arg	Thr	Phe	Ser	Glu	Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro		
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Phe	Leu	Ile	Leu	Leu	Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln		
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Tyr	Leu	Gly	Ile	Tyr	Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly		
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Thr	Leu	His	Asn	Lys	Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu		
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Phe	Phe	Asp	Arg	Asn	Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys		
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785					790					795					800		
Ile	Gln	Thr	Leu	Leu	Gln	Val	Val	Gly	Val	Val	Ser	Val	Ala	Val	Ala		
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Leu	Glu	Ser	Thr	Thr	Arg	Ser	Pro	Val	Phe	Ser	His	Leu	Ser	Ser	Ser		
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Gln	Glu	Leu	Phe	Asp	Ala	His	Gln	Asp	Leu	His	Ser	Glu	Ala	Trp	Phe		
			885					890						895			
Leu	Phe	Leu	Thr	Thr	Ser	Arg	Trp	Phe	Ala	Val	Arg	Leu	Asp	Ala	Ile		
		900						905					910				
Cys	Ala	Met	Phe	Val	Ile	Ile	Val	Ala	Phe	Gly	Ser	Leu	Ile	Leu	Ala		

Lys	Thr	Leu	Asp	Ala	Gly	Gln	Val	Gly	Leu	Ala	Leu	Ser	Tyr	Ala	Leu	
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Thr	Leu	Met	Gly	Met	Phe	Gln	Trp	Cys	Val	Arg	Gln	Ser	Ala	Glu	Val	
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Glu	Asn	Met	Met	Ile	Ser	Val	Glu	Arg	Val	Ile	Glu	Tyr	Thr	Asp	Leu	
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Pro	His	Glu	Gly	Val	Ile	Ile	Phe	Asp	Asn	Val	Asn	Phe	Met	Tyr	Ser	
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<220>
<223> Made in a lab

<400> 539
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 540
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<210> 541
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 <212> PRT
 <213> Homo sapiens

<400> 541
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<210> 542
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 542
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<210> 543
 <211> 12
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<400> 543
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<210> 544
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 544
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Met Thr

<210> 545
 <211> 18
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<400> 545
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Ser Val

<210> 546
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 546
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Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
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<210> 547
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 547
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Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu
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Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
 35 40 45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
 50 55

<210> 548
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 548

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Glu Cys

<210> 549
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 549
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Gln Ala

<210> 550
 <211> 14
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 <213> Homo sapiens

<400> 550
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 <213> Artificial Sequence

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 <212> DNA
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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
          20                      25                      30

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
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Glu Pro His His Thr Gly Gly Gly Glu His

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<210> 554
 <211> 59
 <212> PRT
 <213> Homo sapiens

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 Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
 20 25 30
 Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
 35 40 45
 Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
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<210> 555
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 555
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 20 25 30
 Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
 35 40 45
 Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
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<210> 556
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 556
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 Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr

20 25 30
 Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
 35 40 45
 Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
 50 55 60
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<210> 557
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 557
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 Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu
 20 25 30
 Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys
 35 40 45
 Gly Phe His Ile Arg Phe
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<210> 558
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)...(77)
 <223> Xaa = Any amino acid

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 Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
 20 25 30
 Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
 35 40 45

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
65 70 75

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<210> 559
<211> 50
<212> PRT
<213> Homo sapiens
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<400> 559
 Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
 5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
35 40 45

Pro Arg
50

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<210> 560
<211> 56
<212> PRT
<213> Homo sapiens
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<400> 560
Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
 5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
35 40 45

Thr Asp Leu Phe Leu Pro Pro Leu
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<210> 561
<211> 57
<212> PRT
<213> Homo sapiens
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<220>  
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<222> (1)...(57)  
<223> Xaa = Any amino acid
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<400> 361
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20 25 30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn
35 40 45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn
50 55

<211> 59

<213> Homo sapiens

<221> VARIANT

<223> Xaa = Any amino acid

Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
5 10 15

Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
20 25 30

Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
35 40 45

Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
50 55

<211> 79

<213> Homo sapiens

<400> 563
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5 10 15

Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
20 25 30

Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
35 40 45

Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
 50 55 60

Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
 65 70 75

<210> 564
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 564
 Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
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Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
 20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
 35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
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<210> 565
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)...(57)
 <223> Xaa = Any amino acid

<400> 565
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Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
 20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
 35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
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<210> 566
 <211> 55
 <212> PRT
 <213> Homo sapiens



Leu Lys Leu Val Leu Leu Pro
50 55

<210> 567

<211> 51

<212> PRT

<213> Homo sapiens

<400> 567

Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
5 10 15

Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
20 25 30

Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
35 40 45

Phe Arg Thr
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<210> 568

<211> 75

<212> PRT

<213> Homo sapiens

<400> 568

Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
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Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
20 25 30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
35 40 45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
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Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
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<210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

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<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaatc ttcagaaagt 180
tatatatcta tttattttta tttttttgag acagagtctc gctgtgtcac ccaggctgga 240
gtgcgggtgcc acaatcttgg ctactgcaa cctctgagtc ccaggttcaa gcgatactca 300
tgctcgggcc tcctgagtag ctgggaactac aggcgtgcac caccacatct ggctaactct 360
tttttgtatt tttagtagag acgggggtttc actgtggtct ccactctctg acctcgtgat 420
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aggaaactta caatcatggg ggaaggcgaa ggggaagcaa ggcacgtctt acatggtggc 600
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ggccctggtg cccaggctgg agtgcagtgg catgatctca gctcactgca acctctgcct 720
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ccaccacacc tagctaattt ttgtagtttt agtagagatg ggggtctcact atgttgctca 840
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<210> 571
 <211> 819
 <212> DNA
 <213> Homo sapiens

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<400> 571
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gaaagatggt tctcagggtt ttccttgacg attttcttct tttctgattc tgacaatgtt 300
ttaaatcatt gtactgtggg tatcatttct ctgcatttat tttaccatc ttcctttgta 360
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catgttttct caaatctctt tgtgaattcc agagagggcc aggcacgggtg gctcacatct 480
gtaatccag cactttgggg aggtgagac ggggtggatca cttgaggtca ggagtttgag 540
accagcctgg ccaacatggt gaaatcccg ttcactaaaa atacaaaaat taccagggca 600
tggtggcggg cgctgtaat cccagggtact cgggaggctg agggaggaga atcgcttgaa 660
cctgggaggg tgagggagga gaatcgcttg aaccggggag gcagaggttg cagtgaaccg 720
agatcatggt gctgcactcc agcctggtca acagagcaag actctgcctc aaaaacaaac 780
aaataaacia acaaacaac aaaacagaga gattttgct 819

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<210> 572
 <211> 203
 <212> DNA
 <213> Homo sapiens

```

<400> 572
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atcaggtctc atgagaactc atg 203

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<210> 573
 <211> 132
 <212> PRT
 <213> Homo sapiens

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<400> 573
Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
          5                      10                      15

Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
          20                      25                      30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
          35                      40                      45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu

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50 55 60
 Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
 65 70 75 80
 Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
 85 90 95
 Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
 100 105 110
 Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
 115 120 125
 Leu Leu Asn Tyr
 130

<210> 574
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 574
 Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
 5 10 15
 His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
 20 25 30
 Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
 35 40 45
 Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
 50 55 60

<210> 575
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 575
 Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
 5 10 15
 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
 35 40 45
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
 50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
 65 70 75

<210> 576
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (42)
 <223> Xaa = Any Amino Acid

<400> 576
 Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr
 5 10 15
 Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
 20 25 30
 Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
 35 40 45
 Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
 50 55 60
 Pro Gly Tyr Ser
 65

<210> 577
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 577
 Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
 5 10 15
 Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
 20 25 30
 Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
 35 40 45
 Arg Leu Ala Pro Pro Ala Asp Thr Pro
 50 55

<210> 578
 <211> 51
 <212> PRT

<213> Homo sapiens

<400> 578

Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His
5 10 15

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
20 25 30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
35 40 45

Gln Pro His
50

<210> 579

<211> 56

<212> PRT

<213> Homo sapiens

<400> 579

Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
5 10 15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
35 40 45

Ile Ala Lys Val Tyr Gln Pro His
50 55

<210> 580

<211> 67

<212> PRT

<213> Homo sapiens

<400> 580

Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
5 10 15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
50 55 60

Phe Ile His

65

<210> 581

<211> 77

<212> PRT

<213> Homo sapiens

<400> 581

Met	Leu	Glu	Val	Lys	Phe	Glu	Val	Ser	Leu	Arg	Pro	Thr	Gly	Asn	Glu
				5					10					15	

Thr	Ala	Gly	Gln	Thr	His	Gly	Thr	Gln	Asp	Lys	Gly	Ser	Lys	Asp	Ser
			20					25					30		

Thr	Ala	Ala	Asp	Ile	Leu	Cys	Asp	Ser	Leu	Glu	Ser	Ser	Arg	Pro	Ala
			35				40						45		

Ala	His	Ile	Leu	Glu	Gly	Lys	Met	Gly	Thr	Met	Leu	Ser	Ala	Thr	Leu
			50			55						60			

Gly	Pro	Ser	Trp	Val	Thr	Cys	Ile	Leu	His	Leu	Cys	Ser
65					70					75		

<210> 582

<211> 51

<212> PRT

<213> Homo sapiens

<400> 582

Met	Leu	Phe	Leu	Gln	Thr	Ile	Asp	Thr	Lys	Cys	Thr	Gly	Ile	Glu	Ile
				5					10					15	

Asn	Arg	Asn	Trp	Ser	Lys	Val	Trp	His	Thr	His	Ser	His	Val	Asp	Val
			20					25					30		

Lys	Leu	Cys	Leu	Glu	Phe	Leu	Cys	Gly	Val	Trp	Phe	Gly	Leu	Gly	Phe
		35					40					45			

Leu	Gly	Val
		50

<210> 583

<211> 60

<212> PRT

<213> Homo sapiens

<400> 583

Met	Ser	Thr	Ser	Asp	Gly	Phe	Ala	Pro	Pro	Pro	Gln	Leu	Gly	Ser	Arg
				5							10			15	

Cys	Ser	His	Ile	Arg	Gly	Pro	Ile	Lys	Ile	Ala	Arg	Asn	Lys	Phe	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 30
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 35 40 45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 50 55 60

<210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 584
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 585
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 585
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
 5 10 15

Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30

Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45

Leu Phe
 50

<210> 586
 <211> 60
 <212> PRT
 <213> Homo sapiens

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
50 55 60

<213> Homo sapiens

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agcccgcccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgaactgcc	aaacgcccac	120
cggctggaat	tgctctggtt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgcctgt	gtgtggctcc	aatggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tgggtgtcaga	360
aggatcatgt	gccacagatg	caggatcagg	atctggagat	ggagtccatg	aaggctctgg	420
agaaactagt	caaaaggaga	catccacctg	tgataatttg	cagtttggtg	cagaatgtga	480
cgaagatgcc	gaggatgtct	ggtgtgtgtg	taatattgac	tgttctcaa	ccaacttcaa	540
tcccctctgc	gcttctgatg	ggaaatctta	tgataatgca	tgccaaatca	agaagcatc	600
gtgtcagaaa	caggagaaaa	ttgaagtcac	gtctttgggt	cgatgtcaag	ataacacaac	660
tacaactact	aagtctgaag	atgggcatta	tgcaagaaca	gattatgcag	agaatgctaa	720
caaattagaa	gaaagtgcc	gagaacacca	cataccttgt	ccggaacatt	acaatggctt	780
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tgctggttat	actggacaac	actgtgaaaa	aaaggactac	agtgttctat	acgttgttcc	900
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tgtcatctgt	gtggtggtcc	tctgcatcac	aaggaaatgc	cccagaagca	acagaattca	1020
cagacagaag	caaaatacag	ggcactacag	ttcagacaat	acaacaagag	cgtccacgag	1080
gttaatctaa	agggagcatg	tttcacagtg	gctggactac	cgagagcttg	gactacacaa	1140
tacagtatta	tagacaaaag	aataagacaa	gagatctaca	catgttgcct	tgcatttgtg	1200
gtaatctaca	ccaatgaaaa	catgtactac	agctatatatt	gattatgtat	ggatatattt	1260
gaaatagtat	acattgtctt	catgtttttt	ctgtaatgta	aataaactat	ttatatcaca	1320
caatawagtt	ttttctttcc	catgtatttg	ttatatataa	taaatactca	gtgatgagaa	1380
aaaaaaaaaa	aaaaaaaaaa	rwmqaccc				1408

<213> Homo sapiens

Met Pro Gln Lys Gln Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala
5 10 15

Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys
 20 25 30
 Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
 35 40 45
 Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys
 50 55 60
 Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr
 65 70 75 80
 Ile

<210> 589
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 589
 Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
 5 10 15
 Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
 20 25 30
 Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
 35 40 45
 Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
 50 55 60
 Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
 65 70 75 80
 Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
 85 90 95
 Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
 100 105 110
 Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
 115 120 125
 Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
 130 135 140
 Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
 145 150 155

<400> 590

Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr
20 25 30

Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys
50 55 60

Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly
65 70 75 80

Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln
85 90 95

Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala
100 105 110

Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser
115 120 125

Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys
130 135 140

Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser
145 150 155 160

Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp
165 170 175

Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile
180 185 190

Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr
195 200 205

Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala
210 215 220

Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu
225 230 235 240

His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn
245 250 255

Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
260 265 270

Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val
275 280 285

Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
290 295 300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

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aaacagacaa	aaaatattgt	acaacattgc	acccagtgtc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgctctaata	tgttatggca	aatggatgtc	240
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catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
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tactgtagta	aagcatttca	aaaattctta	aatcagtggg	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	ctaatagaac	actcaaagct	540
caattgggta	aacaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1			5					10					15		
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
			20					25				30			
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
		35					40				45				
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
	50					55				60					
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65					70					75			80		
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val

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<210> 595
<211> 242
<212> DNA
<213> Homo sapien
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<220>
 <221> misc_feature
 <222> (1)...(242)
 <223> n = A,T,C or G

<400> 595
 agnctgctgn tcgtncctn tatgtggctt catnntgagg acaanagtng cactgaggct 60
 tngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgaanggggt 120
 atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc 180
 accctnaaa ntttgngcta caangnccat ttttctttt ctcttaaggg ncnctggct 240
 tc 242

<210> 596
 <211> 535
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(535)
 <223> n = A,T,C or G

<400> 596
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 gaaagctttt taaatttttt cttaagaag atttttagatg cttatcactg agtaccagag 120
 ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180
 ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctgggtg 240
 gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300
 tcttggtgct gaccaggggt cctggaggaa gggatgagggt gggcagtaga gatgctcagg 360
 gcagtggccc ctttccatcc acactggaac tatttcagta ttttaccacc aattcagcca 420
 ttcccttggtg cgctggctga acatcagccc tgctccagggt ctccagtttcc cctttgtaaa 480
 gggaaagctc tggattcagg gagtgatgaa gaggtcatca tgggtcttgag aattc 535

<210> 597
 <211> 257
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(257)
 <223> n = A,T,C or G

<400> 597
 tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60
 tntntaactt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120
 attnctctta agatnngatn agaccccggt tttcacggaa catatccaag nacccaatag 180
 gnaacaagcc acggngggag tcacaaacat atattcttta ctctcataat ccgtnncaca 240
 naactnttgn acttgac 257

<210> 598
 <211> 222
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(222)

<223> n = A,T,C or G

<400> 598

nntggntacc	gtcnaaactt	nncttggtac	ccgagctcgg	atccactagt	ccagtgtggt	60
ggaattccat	tgtgttgggc	tataagctgt	aatagtggag	ncgtgctngg	ttcattgcan	120
nagnccctcc	gcanncacnc	ttgnnacaac	ctgtgagnag	gcataaatt	attcacataa	180
tcatactgc	atgaanctga	ctcaaacgca	tccacntaca	cc		222

<210> 599

<211> 238

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(238)

<223> n = A,T,C or G

<400> 599

gcatgacatc	ancgatgtnt	ttggnnacct	ganattngct	aaaactngng	natgccgggn	60
atgnagggtt	ggtantgatc	tatgcactca	catctcatgg	ggacgtttca	tgtggagtgn	120
tcgacaangt	tgctgnannc	gagaagtgat	gatctcagtt	gaaagggtca	tgtgaataca	180
cnttacactt	gaaaaagaag	cacattggga	atatcacgaa	acgnccacca	acatcctg	238

<210> 600

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 600

cgaactat	ttt	agactaccta	ggaaaattat	tttagtatca	gaagaatata	aggggtgtag	60
tactcatcag	agctaaatga	gagcgcttta	aaaatgtag	tttgtcttcc	gccatttcta		120
cagaaagctg	caatttcagg	ttttcaacct	aataggatgat	atttaanaaa	aaaaaaaaagc		180
aatcgcaa	at	agccccactg	cttttataaa	tcattttttc	cccaacacaa	tg	232

<210> 601

<211> 547

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

```

<400> 601
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt 60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc goggagttag taactcaaaa cgagtgcac tnggaagtat cgcagccgtt 300
nctggatnaa attcccagct tgctncttg ctncgccgg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc nggganttgg ggactcgaaa tggtagagtt gggctgggga tcgcccttgt 480
tacataaaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtcct 540
tgccatt

```

```

<210> 602
<211> 826
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

```

```

<400> 602
cggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
taccattcga gtccctactc ctgccttgc ctagggaat aaaataacgt aaacacgtaa 120
gaacaatgcg aaagcgcttt ctccctagg ctgcagattg tcttcttcac cgcccctgct 180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
ctcgttttga gttacaaact ccgoggatta catgtctttt taaaaaagtt tagactacac 300
tagggaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360
atgagagcgc tttaaaaatg ttagtttgtc ttccgccatt tctacagaaa gctgcaattt 420
caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
gctttttaca atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt 540
gacatctcta ggaattttta tagaccagaa atgggtgccca gagatatgcc tgcactaatc 600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
aatcaagatc tttaggccag aatcatgaa nanttttana attattttan gaatctgtgg 720
cttctcttct taaaatngaa aaaaaaattg tttaaaccce naaggtctga ataccaagc 780
nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

```

```

<210> 603
<211> 817
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

```

<400> 603
nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
agtccataaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
tcgtgcctag ttttgcttta atcacttgc tggagaaatac ataaatcccc acttaagatt 180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240

```

```

aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc 420
atntagctct gatgagtact acacccctga tattcttctg atactaaaat aattttccta 480
gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag 540
tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctagc ttgcttgctt 600
agcaggggcg ggnaaanaag acatctgcag cctagggaag aaaaccttct gcattgttct 660
tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatgggttcag 720
ttgggggtgg ggatccccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780
agggctcgctc tgcatttana ctcggaattt tgggtgcc 817

```

```

<210> 604
<211> 694
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G

```

```

<400> 604
cttttcaaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60
gacatctcta ngaattttta tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg 180
aatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240
tggctttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
agccaaagca acactganca aaaagaacan agcaggggaag caacacacta ccngaattca 360
aattatacta ccagggtgta gtaacacaaa cagcattcta ttggcataaa atagacacca 420
agaccaatgg ancagaataa agaaccctac aaataaatcc atatatntac cgccanctga 480
ttatcaataa cnaacaccaa gaacatatnt taagggaant nctattcaat aantagtgc 540
ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat ccctcaccat 600
acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
atnaaancta ctattaagaa aacagatcnc nccc 694

```

```

<210> 605
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 605
taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccatttctac 120
agaaagctgc aatttcaggt tttcaacctc atagggtgata ttttaagaaaa aaaaaaagca 180
atcgcaaata gccccactgc ttttcaaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattattt taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480

```


aaaaccacaa	aaggctcctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga	540
agcaacacac	taccggaatt	caattatact	accaaggtgt	antaaccaa	acagcattct	600
attgggcata	aaatagacca	aagaccagt	ggaaacagaa	taaagaancc	caaataaat	660
cctatatatta	cngccnc					678

<210> 606
 <211> 263
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 606	
gtggggctcng	cancagccaa ctcagcttcc tttcgggctt tgtagcaga cggatcatcc 60
tctagtccac	tgtgntcaaa ttccattgtg tgggggcnc tcgctcggc canagatctg 120
agtancana	cntgtcccca ctgaggtgcc ccacagcngn ttgtnttcag cangggctna 180
caactcgacc	ggcagcgnan ggctggcaga antgngcgcc tnnctcattc ctacgcngtn 240
ngccgcagga	aggangacag gcc 263

<210> 607
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 607	
ccatgtgggt	cccggttgtc tt 22

<210> 608
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 608	
gataggggtg	ctcaggggtt gg 22

<210> 609
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 609	
gctggacagg	gggcaaaagc tggggcagtg aaccatgtgc 40

<210> 610
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 610
ccttggtccag atagcccagt agctgac

27

<210> 611
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 611
gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc

46

<210> 612
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 612
gcacatggtt cactgcccc a gcttttgccc cctgtccagc

40

<210> 613
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 613
gccgctcgag ttagaattcg gggttggcca c gatggtg

38

<210> 614
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 614

cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca

53

<210> 615

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 615

gcactcccag cctcccacaa taactggcctg gacgggttttc tctatc

46

<210> 616

<211> 1350

<212> DNA

<213> Homo sapien

<400> 616

atgcatcacc	atcaccatca	catcataaac	ggcgaggact	gcagcccgca	ctcgcagccc	60
tggcaggcgg	cactgggtcat	ggaaaacgaa	ttgtttctgct	cgggcgctcct	ggtgcatccg	120
cagtgggtgc	tgtcagccgc	acactgtttc	cagaactcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaacgacc	tcatgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaact	cttgccctcg	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggaggggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtct	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agtattgtgg	gaggctggga	gtgcgagaag	720
cattcccac	cctggcaggt	gcttgtggcc	tctcgtggca	gggcagtctg	cggcgggtgt	780
ctggtgcacc	cccagtgggt	cctcacagct	gcccactgca	tcagggaaca	aagcgtgatc	840
ttgctgggtc	ggcacagcct	gtttcatcct	gaagacacag	gccaggtatt	tcaggtcagc	900
cacagcttcc	cacaccgcgt	ctacgatatg	agcctcctga	agaatcgatt	cctcaggcca	960
ggtgatgact	ccagccacga	cctcatgtgt	ctccgcctgt	cagagcctgc	cgagctcacg	1020
gatgctgtga	aggtcatgga	cctgccacc	caggagccag	cactggggac	cacctgctac	1080
gcctcaggct	ggggcagcat	tgaaccagag	gagttcttga	ccccaaagaa	acttcagtgt	1140
gtggacctcc	atgttatttc	caatgacgtg	tgtgcgcaag	ttcacctca	gaaggtgacc	1200
aagttcatgc	tgtgtgctgg	acgctggaca	gggggcaaaa	gctggggcag	tgaaccatgt	1260
gccctgcccg	aaaggccttc	cctgtacacc	aaggtggtgc	attaccggaa	gtggatcaag	1320
gacaccatcg	tggccaaccc	cgaattctaa				1350

<210> 617

<211> 449

<212> PRT

<213> Homo sapien

<400> 617

Met	His	His	His	His	His	His	Ile	Ile	Asn	Gly	Glu	Asp	Cys	Ser	Pro
1				5					10					15	
His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	Glu	Asn	Glu	Leu	Phe
			20					25					30		
Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Ala	His

		35					40					45						
Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Leu	Glu			
	50					55					60							
Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala	Ser	Leu	Ser	Val			
65					70					75					80			
Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu			
				85				90						95				
Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile			
			100					105					110					
Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly	Asn	Ser	Cys	Leu	Val	Ser			
		115						120				125						
Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg	Met	Pro	Thr	Val	Leu	Gln	Cys			
	130					135					140							
Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp			
145					150					155					160			
Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln			
				165				170						175				
Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly			
			180					185					190					
Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	Lys	Ala	Pro	Cys	Gly	Gln	Val			
		195					200					205						
Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile			
	210					215					220							
Glu	Lys	Thr	Val	Gln	Ala	Ser	Ile	Val	Gly	Gly	Trp	Glu	Cys	Glu	Lys			
225					230					235					240			
His	Ser	Gln	Pro	Trp	Gln	Val	Leu	Val	Ala	Ser	Arg	Gly	Arg	Ala	Val			
				245					250					255				
Cys	Gly	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Thr	Ala	Ala	His			
		260						265					270					
Cys	Ile	Arg	Asn	Lys	Ser	Val	Ile	Leu	Leu	Gly	Arg	His	Ser	Leu	Phe			
		275					280					285						
His	Pro	Glu	Asp	Thr	Gly	Gln	Val	Phe	Gln	Val	Ser	His	Ser	Phe	Pro			
	290					295					300							
His	Pro	Leu	Tyr	Asp	Met	Ser	Leu	Leu	Lys	Asn	Arg	Phe	Leu	Arg	Pro			
305					310					315					320			
Gly	Asp	Asp	Ser	Ser	His	Asp	Leu	Met	Leu	Leu	Arg	Leu	Ser	Glu	Pro			
				325					330					335				
Ala	Glu	Leu	Thr	Asp	Ala	Val	Lys	Val	Met	Asp	Leu	Pro	Thr	Gln	Glu			
			340					345					350					
Pro	Ala	Leu	Gly	Thr	Thr	Cys	Tyr	Ala	Ser	Gly	Trp	Gly	Ser	Ile	Glu			
		355					360					365						
Pro	Glu	Glu	Phe	Leu	Thr	Pro	Lys	Lys	Leu	Gln	Cys	Val	Asp	Leu	His			
	370					375					380							

<210> 618
 <211> 385
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(385)
 <223> n = A,T,C or G

<400> 618									
ctgtgctgag	aacccaaaagc	tatgancact	gctttttccaa	atgtccataa	naccaacatt				60
tttatcacta	ccaccatcac	ctgggagctc	nttagaaaagc	tagtctcccg	ggcaccaccc				120
tggcctactg	aacctaattgt	gcattttaaca	agattnacgt	ngaaatctgc	aaagcacagg				180
ggcngataac	agtaccacct	gntctggttc	ctanccccc	gacccttaca	gtctaactgg				240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact				300
gctncactta	tntattaagg	ngctctaaga	cttagaaaacn	aaangcantg	ctgagangat				360
tcaaatatga	ngggggncac	tttnc							385

<210> 619
 <211> 869
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(869)
 <223> n = A,T,C or G

<400> 619									
gatatccccg	gaattcgcgg	ccgcgtcgac	ctctacttgt	ttagacataa	atgcagtcta				60
gcattaaaga	tccttttaaaa	aaatgttttc	ccaatgggta	aaagacaagc	tcaaataaat				120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagttacta				180
gctttctgtg	tatgagtaaa	catatgggag	aaattttaaaa	cactaaagta	gactcaatga				240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaaggaag	gaaacaatga				300
atgaatgccc	ttattcctct	tagagtgtctg	ggacatgggt	ttgcctgaaa	acttcatgtg				360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc				420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc				480
ttccccaat	ttttgagaca	gatggatttt	ccggaaagat	gtgttttagct	tttaatcctg				540
tggttttgtg	taccacctgg	cacactagag	tgttgctcta	attcagtgag	ttgtaactct				600
gggtgaacag	tggaaatact	agggtacatt	ttaaaaaatgc	taatgctcgg	gcctcgctga				660
agaccaaatt	aattggaatc	tctgnnggng	gnattgatct	ttttataatc	tttctanang				720
attctaattg	gcttccaggg	atgaaaaccn	ctgntggagc	tnggaacctt	cctttagttt				780
ggagaaaccc	cgatgagggg	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccctt				840
tatntntntt	tggaanggnc	cnaattttt							869

<210> 620
 <211> 339
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(339)

<223> n = A,T,C or G

```
<400> 620
gngcgggcct cncogtgett gctctcgctg ccgacgctct tttccacca gctgtaggan      60
aagcccgaag accactggtc ccccgggtag cccaagtacc actggctctc ctggctcctg      120
acgctncggg tcttctctgt ggcgtagact gccagcttcg gagaccctc agccctccc      180
cgcttttctc caccacagga ggccatcagt agcgagctac tgcctcggcc acaacctccc      240
agcangatag cccgcggttt ccaatctgcg aaaggaggac cgccnagccc gaaatgccna      300
gccagcnat cactgccacg ccgagccnag cgctcgtgc      339
```

<210> 621

<211> 267

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

```
<400> 621
gggngcatg gtcccnngta gccaaagtaca tggctctcct ggctcctgac gctacgggtc      60
ttcctcgtgg cgtagactgc cagcttcgga gaccctcag cccctccccg cttttctcca      120
ccccaggagg ccatacgtag cgagctactg cctcggccac aacctcccag caggatngcc      180
cgcggtttcc aatctgcgaa aggaggaccg ccnagccaga aatgccnagc cnagcgatca      240
ctgccacgcc naggcnagcg ctcgctgc      267
```

<210> 622

<211> 847

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(847)

<223> n = A,T,C or G

```
<400> 622
cttangntgt cgactgacgt catgcatgan ttaaagcaga ggtttggtga aatttatgaa      60
aaatacaaaa ttccggcttg tctgaggaa gagccactac ttgataactc tacaagagga      120
acagatgtga aggatattcc ctttaatttg acaataaaca tacctgggtg tgaggaagaa      180
gatgcatctg aaatatctgt ctcagtggta ttcgagacat ttctgaaca aaaagaaccc      240
agtctcaaaa atatcatcca tccatactat catccgtact ctgggtccca ggaacatgtt      300
tgccagtcac cttctaagct tcattttacat gaaaataaat tagactgcga caatgataac      360
aaactaggca ttggacatat ttttagtaca gataacaact ttcataatga tgcaagcact      420
aagaaagcaa ggaaccagaa agtggttacg gttgaaatga aagaagacca agagtttgat      480
ttgcaaataa caaaaaatat gaacaaaaat agtgacagtg gcagtacaaa taactataaa      540
agcctgaaac ctaaaattaga aaatctgagt tctttaccac cagattctga cagaacatca      600
ggaagtatat ctacatgaag aattacagca agacatgcc aagttttaag aatgangtca      660
acacattaga aanaagantt ctgggctttg aagaaagaaa atgttccact tcataaagaa      720
ggttgaaaga agaatgggag agccnngaant tttttgcccn gaaattttcg ggaaccctac      780
tggtatgggtc nactggttgg ccatgaatga ataatggact aatcnnccaa ttcttnggga      840
agggaat      847
```

<210> 623
 <211> 681
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(681)
 <223> n = A,T,C or G

<400> 623
 aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga 60
 aaangctcan gcagcccggc tggccgcgcg cgctcctccc cccaggaaag ccaangtgga 120
 ngctgatgtg gctgcangag ctcgtttcac agccccctcan gtgganctgg ttggggccgcg 180
 gctgccangg gcggaagtgg gtgtccccc angtctcagccc caaggctgcc cctcaciaaag 240
 cactgggtgg ttgcctccac tgccaccttg ggctccgaac ccgctccctt gctgtggang 300
 cccaccgtgg gaatccaggt ccccagggtg actgcctgcc ttgccctcac tgcccactct 360
 gcccacactt ccctgcctag anaccgggaa ggggtgtgtg cgggtantgg gcccacctgg 420
 atgtggcagc accgactgtg ggggtggacc tggccttgcc ggggtgcaaaa gtggggggccc 480
 ngggaaaagc acctgaagtg gccctgaaaa atccccctt aatttttccc caatttgggg 540
 ctcnaacaaa aggaaattgc tgaagccaan ggtaccaagg tcacccctaa ggccagggtg 600
 aaaaggtccc aaaattccaa tncaccacnt ttgggcttnc ctcttggaac cccggccccc 660
 tctcntgaan ttttaaaaaa n 681

<210> 624
 <211> 661
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(661)
 <223> n = A,T,C or G

<400> 624
 attggtctta ctgtaccacc ggggtggaat cgatggccgc ggcgctctaaa tatccgattt 60
 tttttttttt tctctttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa 120
 aaacacaaact atattttgaa gattttctat ctgcactcaa ggacactttc cacnccggtg 180
 ttgttacctt ttggtcttgt ctctgaacat gaaattnatc tcaagggatt ngattttctgg 240
 acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg 300
 gntgacagnt acctcctagc ccatancctc ctatcttggg aaacaaacct aacaactacg 360
 tgtaccttcc atagatctct gattgagtct cagtatnccg ttgctcatgg gcgattcact 420
 tgaatccgtn attggtgcca acaatcctga ctcatggggn aatggatcct atcacgttcc 480
 cctgattngc aacccctgta tacatanatc taatcgcata gaatctagcn tnggntatgc 540
 gcggctacgc tatcagggtg tgntaactat ngcatggcta cgaancctga tcatgatcna 600
 gggctcatgga ctcttatcag ggggggttggg ccgngcttct ttttcnnacc ttggtaaaac 660
 c 661

<210> 625
 <211> 181
 <212> DNA
 <213> Homo sapien

<400> 625

```

gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaaat      60
tgtccaagga gagcaggggtt ctctgtgtaa aaaaagggtgg ggaaatgttt gagagtaaaa      120
aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc      180
c                                          181

```

```

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

```

```

<400> 626
gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaaat      60
tgtccaagga gagcaggggtt ctctgtgtaa aaaaagggtgg ggaaatgttt gagagtaaaa      120
aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc      180
c                                          181

```

```

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

```

```

<400> 627
accaagctgg agctcgcgcg cctgcaggtc gacactagtg gatccaaagt gaacgtgaag      60
gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tggctcttgg      120
gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat      180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag      240
aacgtgcatt ttattttaca tttagaggag gaacaaacaa ccagaaggca aaaactgg      300
cattattttt tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca      360
caactactgg gaatatattt taattttcaa tctgatgtgt gacatctggg aactcattta      420
ttgctaatag agttttcaca ggaagcagca gtcaccagta gctcatotta tttttcagtt      480
ggcaaagtgt tgtttacctt ttattggcct gcatcggtgt ctcttatcac aggatattta      540
attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata      600
gaatggctaa atatttttat tacagtgatg taatatcact gnaatttatg gttaaaaatt      660
atgtaatact caaaaggaat tctcagactg gcgaaacagc tggncacagc ctntcacagg      720
gctttnanct cctnttgagc ttccccctg ntggacttta gtcttccttt tacncccgna      780
gttnccattn nttaccaatt gtnccgggaa ana                                          813

```

```

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 628
tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta      60

```


atcccgtaat	aacggaagac	gaagaagagt	cagaagagtg	cttctataag	gatcggggacg	120
agactacctt	agaggaataa	aggaaaaaag	cagaggagga	agagtggtag	aaggagtcag	180
aagaaaccca	cacgtcgttc	tgaacctgga	gccttatcaa	aaaggtctag	ataaacgata	240
gcgatctcga	tatcgagctc	aagaggtagg	tttagagact	tctcgtcctc	gagagcgaaa	300
tggaagatct	cgacgacgat	aagaagttaa	agtgtagagg	gtgcttgagg	agcgcggtgga	360
aggattctgc	ggagggaccc	atcgacgtag	agacttgaa	gcctactaag	gtccacaaga	420
agcccggctc	tttctccgaa	tggtcggagc	gtacagtatg	cgacgtcgat	cggcagacaa	480
gctggcggta	gactcgaagt	gttcggggcga	atcgacttat	aatagtcgcg	cgctagtaac	540
gtaggaacac	gaagagtagt	cgaaagaaaa	cgtttagtga	gggaaaagat	tagggaaaaa	600
ggagaggctt	aataactaag	acacttggag	cctaggccaa	cgcgaa		646

<210> 629

<211> 617

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(617)

<223> n = A,T,C or G

<400> 629

gccccncccc	ccctcctnng	gcttatnggg	acagacccac	gtagtactct	aaatcttctc	60
ctacgcggga	caacggaccc	tataccaatt	cgaatcttgg	acactccgac	cgccggattc	120
tcttccccct	tcggttcccc	ctttctgtcg	gtacccctcc	ctagtcgtct	cctacacctt	180
cgtaccgtcg	atatatagtc	gccgcggact	agcctattta	ggtgtcctag	actcgttatt	240
gatccaactca	ttagtctagt	actatgcgtc	acgtatctta	gttgcctaag	agggagatta	300
aatcctccac	aagttccgac	gaattcctgg	actctcgtac	tagcaaactt	tcttatgagg	360
cttccttgta	tatcttctgg	atgtttctcg	tgtcccggtc	ctccgctact	actagagctc	420
cttgccctat	ctctagaagt	agaggactct	cgggttcggt	ctccaaatct	agcgctagag	480
ctatcgctac	ccgctcgatt	ccccagcgg	aatcttgaaa	cctgaggtag	tacacaaacc	540
ctcncatct	tccctcggtt	gtccttctct	ctcatcccc	cttccgcct	tctcggaan	600
gaatctactt	tancttc					617

<210> 630

<211> 644

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(644)

<223> n = A,T,C or G

<400> 630

cnntcggcnt	gggttttntt	ctgagnnncc	ccccccccc	ccccccaaa	cttacaccca	60
ccaaacactt	tccgccccct	acctaggaga	cattagaagg	gtttaggctt	cgcgctatag	120
taaagtcctc	tacctcgaa	gtagagaatt	cggtatTTaa	attcagggtt	agaggctcgc	180
tcgttagatt	tatagtttag	gtttagaatc	ggaaaccttc	gatcttccct	agaagggtaa	240
taagtgaggc	cctaaatccg	tctaaccaag	gcgttaaggt	ccgtacctaa	acctagtctt	300
atcttctatc	aggcgcacca	atataggtag	gttctacttt	cgtataggcc	ttaaggaata	360
gttcggtagt	tatcgaaggc	actcctctct	aggctaggct	tttctcagtc	ttagtactcc	420
gggaccgtcg	tcgcanaaat	atcgatggac	ggtaggtatc	tccgcgttac	gcgtcgggct	480
agggatatag	agcgaattat	cggcgagagg	cggtcgctan	gaatcggtat	caatatgntg	540

```

ttctttaccc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggatt      600
atcggacccc taaaataaca gtaacattta gantactagt accc                        644

```

```

<210> 631
<211> 526
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(526)
<223> n = A,T,C or G

```

```

<400> 631
cctcgggctt ggggtttttt ctgagccccc cccccccccc cccccccccc cccccccggc      60
cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct      120
atcccncgta tcgngtaggt cggtagccgt accgngatc ncnacgattn ttcgggtcgt      180
cncccttaan acggncccggt agccnccgga anaaatacta cgagngactc taatntagca      240
anaccgcgcg tcnattanta gcatccttag tcttccaatg ncnnggattn ngaatccttn      300
naagttatcg ggtagaacgg gtcccggtcc cccgccctct ttncaatata cgcgggttac      360
aaantcgggt tctaaattcc ncacgaattt ngncggcaac attcncgggn ccttattanc      420
cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcnccccga      480
ngantccggg tcctttgagt ngctctagga cggttacgac ggagga                      526

```

```

<210> 632
<211> 647
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

```

```

<400> 632
tttggngggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg      60
gtgttttgag tttcttcttc gtcgtctctg ggaggttcgg tttcgattga gattcggggt      120
cgtctttatc ttacgaggca ccctgatatt gttgcgcttt ggtttggttg tggagagttt      180
tgtctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt      240
gtgagcttga gaggggagtt gtgggtggtg cgggcggagt aggaggggtt ggagcaccgg      300
gattgggaga tatagaatca taagtgttag gtataggctg attgagcgag ttcgtggaat      360
tcgtgtggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggt      420
cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt      480
aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttggtga tattgtggnc      540
tanactatth agtgtaagcc ggaggtggtt tgccgtggtg gaggatccga nnttcattcg      600
ganggtatgc gtgcggagcg gtcctttagt acattccgga aaaatgg                      647

```

```

<210> 633
<211> 630
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<222> (1)...(630)

<223> n = A,T,C or G

<400> 633

tccttcggct	tgggtttttt	tctgaccccc	ccccccccc	ccccctcgga	aggcctctag	60
gctcccaccc	gtctctctaa	tcctcaggaa	ccgatccacc	caaccaactt	actaatgtcc	120
tacagtaaac	acccgagaat	ataaaccac	acctaggcct	ccaatcctac	caggggaagca	180
agaagccgta	gtctagcgta	ttacgaacc	gagatagaga	cggagatact	tagttttatt	240
ctctcggaat	aggaaagacg	actggggagg	gaatataggc	tagcgcgggg	ataggggcta	300
tggcggatat	gggggcggtt	cgctctctta	ttcttctata	ccacgtcaat	aggaatgtag	360
atatacctag	atgttcccg	agaaagagac	gttagaggtc	tccgaagcta	taaaggagag	420
gcgcgaagaa	acttcgtact	ctagctttat	ataggtagtc	gctctagtcc	cataagcgac	480
gagagatcta	ctagatttcg	gtatcgccgt	cgtatgtatt	cgaaatagtc	ttcttccctt	540
tttcgatctc	ctctctatac	tacatggnga	ttatagtcnt	aagatagtca	ggatatttag	600
atattagtta	tatgacgttc	gacgggacgg				630

<210> 634

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 634

ccntcggtt	gggtttttt	ctgaccccc	ccccccccc	cctccactaa	gancttaacc	60
caaccctata	gtttactcgt	ataggggaat	cgaggagaaa	taggaacgaa	gagcgggtga	120
taaagagaaa	gtactttcct	ttatatgtta	agagcttagc	gtaatgactt	tcgttatatg	180
gctagttgat	tttatccggc	gttatagggc	ttagtctctg	ttatctcggg	tctaattccc	240
ttagtatgct	cgggagttta	acgaggtcac	gggatagcgc	gtaccctttc	taaggttcct	300
ggaaagctat	tcgttatatta	tcgcgattct	cgaggtcgaa	aggatcaagg	atcttccctt	360
ttactaccct	agtcgggtta	gcggtcggtc	aaaactagt	tagtaccttt	acctcctcga	420
aagttatagt	cgaacaacg	tattagtcga	aattatagcg	gatagatcga	gacggttctt	480
tctcgggttc	tcagccggta	atccctctat	ttgggggtct	tctccctctt	cccctttgtc	540
ttccgcctta	gcttccaagg	ttcctcggaa	gcgaggggtt	ctacttaagt	cgntagcgtt	600
ccttataaac	cncctacagg	cagacccctt	tgtaaaccgc	tcgggggt		647

<210> 635

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 635

ccttcggctt	gggtttttt	ctgagcccc	ccccccccc	cccgaactc	gccttacctt	60
agatacccaa	agaatagttc	cactcaactt	cgtctaagta	aaactctaga	acttccaaac	120
ataaaagact	tcgcgcgggt	agctacacag	cctacgggaa	tctcacgaat	cccgattcaa	180
gtcccactct	cgaccacacc	ccggtatcgt	cgttttccca	taccaatgtc	gaaaaataaa	240

```

ataaaatcca gtcaagcccc acggttaagcg ggggtagggc taggcgaaga ggcaggaacc 300
gttcgagggc gggggccttc aaaatacaaa acaactactt aaagtttacc ctttctaaag 360
tcggggggcaa cgggttaaagc acgcctctaa agtactactc gtttcgagaa ggggtagtca 420
tctcccgcat agagactctc gcgtatatca actcgcacgc cttctagcat tccgacggtc 480
gccccgcggt acatatcttg cggattagct ccgagggact ataggggttaa ttagtctagt 540
aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggncctgcg 600
tcgtgctcta ccttgacagc atactcttat aaacatcttt ttcct 645

```

<210> 636

<211> 643

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(643)

<223> n = A,T,C or G

<400> 636

```

ccttcggctt gggttttttt ctgacccccc cccccccccc cctagcggaa aacaatcccc 60
accgagattt tattaatcgt aaaactcgcc ttcggtacca agtcttctc cttcccgtaa 120
cctggctccc tcctagnngc tttacgaacg tccctcctct tcttacggct cggaagtggg 180
tacggttaaa tccggagngg gggctaacga atccaaggct aactcctctt anagtttggt 240
gtcncncgt ttagtaagga tccgtggagg gcgagtattt gncccccggc ctttattnta 300
tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan 360
agggccgacg tcncgcctag acaggctaca gctagnngag gtaccgcctc cgactantcc 420
gttgnttccg acaaggnagt ttcggttaac tccacaaact cctccgccga ctctanggtg 480
gggacggcag ttccncggtt tagtgtgcgt tatagagaag ggcatttgag ttggacgtta 540
cnttttaaca taggttattc cgtttagggt cttgcggggc cgtgggggta gtncccggc 600
gcgttnntat cggcgatttt ccgcagtttc cgtttccggn tnt 643

```

<210> 637

<211> 631

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 637

```

gggttntctc atttggtggt actttttggg tcgtaggaac cggtatgnag gagtaggagt 60
cgctgggaag actagaagtt agctacggac gatttagtgt attccactct taataacgag 120
taatcgttta cgtcgggttg gtgttcggg gttttggaga gtaagcgtag ttgtggagtt 180
tcgcatatag gtccccttac ttcggcgatc tcgtcttctg tcggttaggt tattattggt 240
catccttcgc attagtagta gggttggtcg gataaatcga tagctattct ttagaattcg 300
tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt 360
acggttattt tgtcgtcgac gtaggtgtcg tttacgggag tttcgtttta ggggtttacg 420
tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac 480
gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatatcc 540
caagaatatt acggagatta cagatcggaa ggctcccgag atcggacgta ttaccggtct 600
cgcccgaaac gagtaggtat cntccgata a 631

```

<210> 638
 <211> 606
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(606)
 <223> n = A,T,C or G

```
<400> 638
ccccccccc ctcaaccatc nattccccac ctcaacgcga attacggttt cgaaagtcga      60
caataagtcc ggtcgcagtag agggaatcag gggctggtan aaaggaccac gggcggaaaa      120
taccggcttc cttccgggga gcgacgtcgg ggaaagggaa gagagcggtc tagttcgtag      180
gcaaacaggt cagaaaaagt aaggttaaag gtcggagggg agaggatagc tagtacgctt      240
agttcggggc tcgggcgcag ggccactttc ctctttcgcg ttcctttact ctgcttacga      300
gttcaggctc cggagttccg cgcgcgaggt cgtcgcgcag ctaggaatgg ggactcgcctc      360
agtccccggg tatccttcgg gattctatgt ttctgcgcag agacggagac cgggtagtag      420
ggttccgtcg taccgccact cgtcgccttg atccggcccg ctccgcttaa gggcgatgaa      480
agattagcta ttagggtctc acgggacgag gcatagggcg ggagaagggg ggaggggtcg      540
ggggtcgaag ggantaagaa atcgcantcg cgcgggggtcg gtagganccg aaatttttct      600
cnncgt                                           606
```

<210> 639
 <211> 592
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(592)
 <223> n = A,T,C or G

```
<400> 639
tcctcggct tgggtttttt tctgagcccc cccccccccc cccccgggaa cgagaaaaca      60
atcccaccct accgcgggga gtgggttgna cgcttagttc tagaatctc ggaatcgctc      120
tccggcgttg gtagttccgg cgattccgag tatgccgaag tgtatcgctc cgtctagagg      180
ttggtatctg tttatcgcca tgacgtatt gactcggatg ctttcgaagt agggggatag      240
gcgcatagat acgctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag      300
acagctctgg tggacgataa cggcttctcg tactcctact ccggctatta tgttagagag      360
gacttgtttc tgaacggata taccattagc gaaggggtac cctccgctaa cgcaggcggt      420
tctaacagtt cttccgggcg ctccgaattt agattgacgc ctccgcagca ttgtgggac      480
ctcttcggtt agccctcttt ataggatttc tctccgccc cgaaagangg ctggtcgtcc      540
ccggcangta tgtctagctc gaacgctttg ttactccttt gttttcgaaa na              592
```

<210> 640
 <211> 637
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(637)
 <223> n = A,T,C or G

```

<400> 640
ctttgtggcg gtggntgtct catttgggtg gacttttttg gtcgtaggct tatccgggtn      60
gggctcccga agtagcttag gatcgccggc tagttccggc cccgcccgtc gaaagcgcgg      120
ttcggcgggc ggccccgcgt tcgttcgcgg gctttaccct catagagtgc caggctctcg      180
ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgccgcttta      240
cgttcggtcg gcatctacgc ctagttcaca ggtagtttat gcgccggagc gcgtgacgga      300
gaggttatac gggacgcgga agaaccgcct ccaaatagact agtacaggct cgttcgggcg      360
tagatctcct cgctcggtcg gcggttctta cttctagggc cgctctacgg ttaagggcg      420
tcgttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaagt agagagaagg      480
gtaaacgatt acctccggtt ctageccctt ttactcgcat aacgggagaa cggggtccgg      540
ctctcagata cgctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt      600
atacggttaa cgcggtaaaa gcgacctcgg aaacctc                                637

```

```

<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

```

<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggattttttg gtcgtaggna acctggtatg      60
aggtctagtt ttctcaacga ttcttggttc agttacgcga ccctatcctt atcttacaat      120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc      180
aatatgagaa agtatacatt aagggttatta tatattatc gcttaaaaag gttcctgaca      240
tgggacaact tcacccacca ttctagaagc ccccccctct gtaggacccc ctcgagttcc      300
ccattatctt agttcagttt tcatttttta accaggaggg tatcggtttt taataggtac      360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg      420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta      480
agtatcgtec accataaccc catcgggctc tcaccccat tcttcataag ttctagagca      540
tcctgagctc ttctctatta cccttgatgg tactcatggt ctaatacccc ccgcagttat      600
aggtccttat ggatcctatg ctaccaccgg tctaatecct tctatcacn                                649

```

```

<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcggct tgggtttttt ttcgtcgcgg gttactatta tcgattgtta cttgtaaagg      60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggtc      120
tactcggccg gcgaagacgg cgaacgggta ggaggagcca tatgcaacct taacggagat      180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagataggt ggagagacac      240
tattcacgag cataagcact tagaaggtct tctcgaggag aggtaggcta cggactacgt      300
tccttcttcc tctagcctcg agaggagta tagatgattc gcaaaagaga atccctccta      360

```

tacgctggca	taactagacg	acgcgtcgtc	gggaaatctc	gccaaccccta	ttgcgacctc	420
caaaaggaag	attgtcgttt	catagaacgc	taatactccg	ggtcttcccg	aatcatagcc	480
gcatatcggt	aagaagacgg	taaaatcgcg	cgattctaac	aagattctgt	agacttaagg	540
ctaagcacta	gaagcgatct	cgattccgga	tcttaagatc	atactaatag	ttcggtcaca	600
ccagacgacg	attagccact	agaagcccta	ctccgtnгаа	accgg		645

<210> 643
 <211> 586
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(586)
 <223> n = A,T,C or G

<400> 643	
ctttgtggcg	gcggtgtctc
ggtccgcccg	gaattaaaag
atagcgatag	anccttcata
ctagttgccca	aattagaact
gacttaagct	acggtagagc
tagtccggca	cggaggacat
ttaacctcag	aaggcgccga
ctccccctatt	tttccaacac
agagggaaaa	aaaacgatat
actccctttc	aaagggagtt
	tccccctagg
	nagagttcaa
	cngaag
	60
	120
	180
	240
	300
	360
	420
	480
	540
	586

<210> 644
 <211> 646
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

<400> 644	
ctttgtggcg	gtggttgtct
agggtatatt	gacttgtttc
tcggttcggc	gggggtgggg
ttagggcggg	aagggttag
agaaggtagt	tagcgccggt
ggagagagag	tttctaagtc
taagctagag	gtcgaggtcc
cgaggaacgg	agcgaccgac
ctcacctcca	cgggcgtata
aacacgtata	cactatatac
attaattttac	acttatatac
	gcgtlaaacac
	gatatatcac
	acnccg
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	646

<210> 645
 <211> 654
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

ncnctcggct	tgggtttttt	tctgaccccc	ccccccccc	cccccggtcg	acaacgtgcc	60
caccgttgcc	atcccagcat	agctggttcg	ttctgtttta	ttcttagtag	tttagttcgc	120
ctatagtccc	tcgtctatcg	tctatcattt	aaggaggcgg	ggctcgcctt	ttagggcggg	180
tatcttaggt	attcttctgg	tttcggctgc	cgtctcggag	tctggtcctt	ttgctttcct	240
ttcttggtcg	aacttcgtgt	ttgatcgcgt	tgtttctttg	gggtcgtcat	acctaagggc	300
cacttcgcca	acaaacaagt	ttgtgtagtc	gtttctatta	gggttcgctg	gccggcgcgc	360
ttactggttg	gcgattttta	acgcgttttg	ttttaatttg	cttcctcccc	tagggctcgc	420
tcggtcttct	ctctgttcgc	tgctctcgtc	cggccttttg	tgcggggata	gctccggcta	480
ttancgtgcc	gtgtccgtgt	ggnttttgtc	caatgtgaag	gcctaggggt	gcgggcttct	540
ttggccatgg	nttccccctt	tgtgancctt	aggggtaacg	antcgttaatt	naaggtcggg	600
ggttggnata	cgttntangg	gangectgng	tcgntatttc	cttgtttttg	cctn	654

<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 646

tccttcggct	tgggtttttt	tctgagcccc	ccccccccc	ccccacgcc	aagtacacag	60
accacacaaa	aacaacgtca	acacaacttc	gggtatacgg	accttaagag	agaccccgtg	120
gtagacccta	ccacagccat	ccaatagtc	aacaacaagg	gcgcacccaa	tccatccata	180
gagctatcaa	acaacggagg	ggaaaggaaa	gagcagggtc	aaacttagcag	agatcgaagt	240
cggcactaat	tcctttcaag	tactcgctcg	gcttgtagtt	cggggtaaag	tccgctctca	300
aagggccaac	gaggttttaa	agcgaccccc	gtatcgagtc	ttcttcgtat	tcattaaggc	360
gttaaaggta	cgagacctag	aagagagtag	aattagccca	ccaaatcgcc	taaaccggca	420
aaaacgacca	aaagtcaaa	acccttacia	atatcacctt	aaaacgccaa	ccccaaaaac	480
gcgatcagta	acgcacgtac	ctttcccacg	cttttctttc	tttcaactctc	caaaacaaaac	540
ccgaatatatt	agcgcaaaaa	atatccgagg	gagaattaga	agctattacc	cgaaaaaaa	600
ncgganangg	antaaatngt	ggggaatana	cgtttggttt	ttctg		645

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 647


```

accttacctg gtaccgggcc cccctcgag tttttttttt tccaaataca actcagattg      60
tatacgaaaa gctgataata cattgacttt tgctgtttta atcccttgag cctttgataa      120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc      180
catattgatt agtttgattt tatggtgatg ggatcattgt gtgttaactg tattaagaag      240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa      300
aagcattttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa      360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat      420
aaatctgagc tatttcttgc ctggagaaca agtggttattc ataataattt aatagcttct      480
gaggtgtttt gttcatgtga tgaaggctta tccaccttgt atcaattcat gggctctgct      540
ttgtttaatg tagtcagggt gttaatacna gacttaagag tcacccact gtgataagtg      600
gtgagtgaag attacatgtc ttangaaaat tatactggga atatctctga cattaatggg      660
tttaaatgtt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctgg      720
ttgtttatat ttgnggaagn catnaagana ccg                                     753

```

<210> 648

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 648

```

gatatcccg ggaatgcgg aggcctttng gcttaoctgt ttaccgcgta gggcaaagcc      60
ttgncaaatt cccggccagc ggagcggcga ggggtggggac tcacgggaag ttaaacagcc      120
tcgtcggcgt cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat      180
ggaggccacc gcggtacgg ccgcggctga ggccctccca ggtggagcgg tggcctggag      240
gggaatcttg atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga      300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat      360
tgaatgctgt ctgatgctac aat                                     383

```

<210> 649

<211> 349

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(349)

<223> n = A,T,C or G

<400> 649

```

cgattgtnta cnagtcttag agtaagctta agntcgn tac cgagctcgga tccactagtc      60
cagtgtgggt ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg      120
anatttacc c tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa      180
aaaaatttta atgagaaatg tgtgtggtag attaattcta ttaatctcaa gttatagatt      240
aaaaaattta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan      300
aangacctg catacnaat ganatactgg actttnggna cttgangga                                     349

```

<210> 650

<211> 306

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(306)

<223> n = A,T,C or G

<400> 650

cattgtgttg	ggagcatcct	tccatcagct	cccatgagaa	attctctggt	gggtttaagc	60
aatcccaaaa	tatatcatat	tgacatgaat	atatcatctc	ctcaatgtcc	agcattagca	120
gacaagatga	gtgctgaaga	tgatataact	cctacctctt	atgtaggcta	gaggtaaagt	180
ctggctctgc	tgactgtggg	gacataccga	aaaggaatgt	gggttaatat	cagangacct	240
ccctgcagat	ccganantca	gggnctggac	tttctgggan	aggaagcnaa	aagttatntc	300
tgaacc						306

<210> 651

<211> 769

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(769)

<223> n = A,T,C or G

<400> 651

cattgtgttg	ggcaggggtca	tttctaaggc	atgggctgga	agcttttatt	taaaacttta	60
catgtcttag	aagcactctg	gttggtgcta	ggcagacaat	tttacatctc	ttgctatacc	120
agttgcatga	agttcatcat	gcatattggc	tgtggaaaac	cttaacagca	tcatgtcata	180
aggtttcagt	aaggtttaaa	tgaaatcatg	tattaagcac	ttagtatagt	gcaccttaaa	240
tgttagcttc	aaaacaatga	caacctaaact	aatgttgaaa	gaagcttggtg	tttgtaaatt	300
atgtcttatt	gaaagatgtc	atcaaactcct	gttatttcta	atcccttaaa	gtctctcaat	360
gtattttctt	ttgccatatc	caatgacagg	accttagttt	aagccagtgg	ttctctcaac	420
ttctaatacca	gagataacctg	ggtgtcccca	agaccttttc	agagcatcct	tgatgtcaaa	480
accattttca	taataatatt	aaaatattat	ttgctcattg	tactcttatt	ctctcccaaa	540
tattcagcga	gttttccaga	agctatataa	catgtggtaa	catcttatca	ctctgacgat	600
taatagaata	tgngnttttg	gattcttgng	tttaaaattt	tctcactttg	gggttctaata	660
atggnnacga	ttaatagata	tggnctccat	gaccagangg	ctttaaagca	ntcaataatt	720
tttaagagac	taagnactat	cctttaaaga	tnngnaactc	catcttaata		769

<210> 652

<211> 267

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(267)

<223> n = A,T,C or G

<400> 652

nnangccctt	taaccattgn	ggcctccacg	cnntggcggc	cgctctacaa	ctagnnggatc	60
cgcnactcta	gnanaangat	tggtcttnt	gggntgggcc	ggncgggctg	gggcgttaag	120
cggggctggg	cgcgcgccgn	ggttgnacna	ggcgccgccg	ccncacacn	cccggagcac	180

```
cctccttgcg gccntncccc gctcaccccg cgcgcgcgcg tccgcttttt ccncacccan 240
agcncntttt atctntgtct cctccgg 267
```

```
<210> 653
<211> 501
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(501)
<223> n = A,T,C or G
```

```
<400> 653
cccnttnacc cattgctgga ctccaccgcg gtggcgggcg ctctanaact agtgggatcc 60
ttncnatgag atngcgcgag gaggacnnat ttgctatnct ggatggggct gantcntnta 120
gctnctctag cncagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180
cncatccta aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240
ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300
ggacntatca ccntanaggt acanntnccg caccacacac cngcttgcn cctgacgctg 360
gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac 420
tcganggggg gcccggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480
ngngtccta ttanaacgtt g 501
```

```
<210> 654
<211> 710
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(710)
<223> n = A,T,C or G
```

```
<400> 654
gcgnccttan cncatgctgg gctccaacgg gtggcgggcg ctctacacta gtggatccca 60
aactgagtc caccacagna aaactcanca ccaggcagac ccacaaactg cagaatccag 120
gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180
caaggnttta ggtttgcgtg gtanactcaa tctctatctt tcaccactgc cagcctgact 240
tcagagatcc tngctctctg acagtcctca gtggcaggca actctcagga gcctcaggnt 300
tttggcacat cccagnacca gccagctgcc acaggccctg acctntanc aacactgccc 360
atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420
gtgcncctca aanctgtgcc tgctgcagna ngccccacgt ctctggcatg ccccaatgcc 480
atgngtgga acanttgact tctgggcatg ntggaattcc ctaccactga ncctgacat 540
aggnggganc ccatTTTTTT cgaggggggg gcccgcccc caattccncc ntatagnag 600
ncgtanttac gcgcnnctta ctnggccngt ngtttaacaa cgtcnntgan ctggggaaaa 660
cccctggnng cnacccaaat taaacngcnt tgcannacat ccccttttcg 710
```

```
<210> 655
<211> 202
<212> DNA
<213> Homo sapien
```

```
<220>
```

<221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

<400> 655
 ccccttttccc ctttccanccc ccccgttttg gcngccgccc acacctactn catccaccca 60
 cantcgacca cccgagcttt tttccgatcc cancatcnat gcngattttt tctntgcntg 120
 ctgngcctgc acctttgnta ggtcaagcct ggcccatctt cgacaacttc ctcacacca 180
 acgatgaggc atactctgac ga 202

<210> 656
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

<400> 656
 gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg 60
 tgggtgtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc 120
 ccattcatgg aggcctgggn anttctgtga ntgacntnga cncctanacnc tnccactgtn 180
 tgctatccag acttgnttng aatatnttat tggcnaaana canttncgga atgctgtgnt 240
 tgnncattga angatctgat cactatgaga gggtgaggac nnccctgctng ctggcantnt 300
 ntaaccn 308

<210> 657
 <211> 696
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(696)
 <223> n = A,T,C or G

<400> 657
 accntttcca caatnctggn ctccccgcgg tggcgggccgc gtcgaccagc aacctcagct 60
 gtgggtcttg ttacagtaat gagttactgt aaggaaagtg tgacatttcg agcaatttga 120
 tttgtttaaa aactagagca gtttcagggg tttccttgta aatctgtctt atgtgtcttc 180
 aatgttcttt cttaggaggt agagaaagga attgttagga atgatgcata aacctatggct 240
 tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga 300
 gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt tagggcttag 360
 aggggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg 420
 gtgngaaagc gaatcttggg ntcaaaaana caatggnaag gggtaagttg gtatnctgaa 480
 ctggccactt cggactctta ttttaactggg tattctcant taaggaggcn ngggtggtct 540
 tggcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa 600
 angntataaa tcttggtct taanaangaa gctgggttc tnttanccca ttttnccccc 660
 gggaaggnaa atnttcttag gnaanggaag ggaagg 696

<210> 658
 <211> 698

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

```
<400> 658
ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc      60
aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag      120
cttgtgttgt ttcatgetca gcgtggaggc cctcctcca ggtcgctgct ctgtggggtt      180
cccatacaact caggctccta ggaggagtcc atttagaaaag ccagggtttt tctcagagtc      240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc      300
aagagaaaag acagggaaaa taagagaggg accttgacac cacacgctct ggaccacaga      360
gccctgtgcc cagctcctct gtcaatacac gtggaatctc gtgcaggatc gcagggtgtc      420
gtgatgccac caagagcgag gccgggacag ggttaggaga gaaaggagag ggaagtgggg      480
gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggttgtcggg      540
ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacataca      600
gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg      660
gnaagttttn aatttncctc cccnaccan cttgcttc                                698
```

<210> 659
 <211> 750
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(750)
 <223> n = A,T,C or G

```
<400> 659
ncaanctggn ctccaccgcy gtggcgcccg ctctagacta gtggatcctc ctcatgggcc      60
tggaatcttc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt      120
gaggcctaag aatgntatth tcttttagtg atgggtctttg tttgcttctg taaggnaactt      180
gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc      240
ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt      300
aagtcttttg gggccccaaq tcaaaaagat gagggattta ccagttctct aaccttggta      360
gccccagact ccaaaacttg cttctagtc ccaagaggct atcaaaaagc aaaggccatc      420
ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc      480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc      540
acctancatt cncntttttc tggaaaaccgg aaaaancttn tgacttnngt tggctacatt      600
cagcttggcc cctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt      660
tttnttggcc cctgactttc nntttttagg gctttccccc angctttgcc cctttgggta      720
aaggggttat tttccttccc cttttggaag                                750
```

<210> 660
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(849)

<223> n = A,T,C or G

<400> 660

tcggatccac	tagtccagt	tggtggaatt	cgcggcccg	gtcgacggg	agtagtggt	60
tgcntntcta	aatgttataa	ttatttcaga	attactctgc	cagaaagtta	tgatcataca	120
tagaagagtt	tgtagctaac	tttgaaagta	gtggaaagt	gttttcatt	attgtttggg	180
ttaattttaat	tttgattata	tttggttttt	agttcaggta	atttttttgt	tgaaaacttc	240
aaatgacaat	ttcttcattg	ttactaaaga	tcactcatgt	ggagtagttt	cagatttttt	300
tctgaataca	tgtattactt	ttagagatgt	aaagatgtga	aattactaag	agagaaaccc	360
atgtgatttg	tttagtggt	caaaagtcgg	tagctccttt	gacctaagt	gccactgata	420
gttaaataga	tactgaagct	atgggcaggc	tggattgata	agaaaaagg	agacagagaa	480
atgggaaatt	gggaaagaac	tgtgcaaata	ggaaaaggag	agagcaacag	aacagaatta	540
gtaccacagt	gccgaagtgc	cacctcaggt	acttccatct	cccattctct	gaagaattca	600
gtaacagttt	gcaaatggtc	aacacaatca	tttagtgatc	ctggttgata	ttttcaatac	660
tttctgggga	tttcttggct	ggnttcaaaa	gatgatgctg	atagttttat	tgcccctgaa	720
ggtattctga	agnttancat	aattttattg	tcagtaaaat	atttgaataa	aagngganga	780
aggaaaatct	ggcntcttat	tttgggatnt	cngcngggg	aangaggata	taattnaccc	840
cggccttgg						849

<210> 661

<211> 653

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(653)

<223> n = A,T,C or G

<400> 661

aacttaagct	tggtaccgag	ctcggatccc	tagtccagt	tggtggaatt	cgcggcccg	60
tcgacctcca	ttcgtttctt	gtcctttttt	ttcatttttt	ctcatgttct	attcacttta	120
ggttttctaag	ataaatatta	taaaataatt	tttacttata	aattattcac	tgataccctg	180
tctttaacat	tgaaatgaa	ttcaaaaagga	atcttaatga	gaaataatat	actcatgatg	240
tttaatagat	ttgatttcga	aataataagc	cctctgaagt	cctaagttaa	aaataaagca	300
acttgtttga	taatttttca	tcaagaatgt	atctgagtct	ctgagtaatt	attagtagga	360
atattccatt	atcacaatta	cacagtataa	gctatttagt	ctaactttac	caaaaaagg	420
agctacttca	acactgtgtg	agacttttaa	tgggtttgca	ttgggtatgc	actattagca	480
agataaccta	ttttacagca	gtgtttntta	acctttccca	tttatttgaa	aggcagctaa	540
gatatagtag	ttaatntaan	gggctgatgc	atttatatta	catgtagana	atgggagata	600
cnaaaggag	nggggggana	tnttttgnat	tcnnaagctt	cnttgncaat	taa	653

<210> 662

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 662

aaacttaagc	ttggtaccgc	agctcggatc	cctagtcacg	tgtggtggaa	ttcgcgccgc	60
cgtcgaccca	gggacaggca	gccagnctg	gggtcaccag	ggccccctct	tgggccctcc	120
aanagcaaca	gtactggcaa	cagctgggat	ttgctgagca	cagactctgc	agcaggctcg	180
gttgagctct	ctgtgcctgt	tccttcatac	catcctcacg	cccatccatg	agatgggtcc	240
agctgttttc	agatgagaaa	atggcacagg	aagctggtaa	gtgacagtca	gaaatgaatg	300
ctggcagctt	antccttgga	cccaccgcag	tgcaggacct	tgctcaacag	ggatcaccct	360
tgtccgccac	ctgttcacga	ggccacccag	ggtttggtgtg	gtcatttgtc	tcctttcatc	420
tgcttgccct	caaccagctg	ggtcattagg	gctggggaac	ccagacccca	cacagtcctt	480
ctcccagang	ccagacacan	nctncgccac	agnaaggact	tcagtccccg	aancaaatgt	540
ncctgggcgt	anaaactgna	gggnccocaa	tccttggtgg	ggtactgctt	tgcaactggng	600
gaattcacc	ctcattgna	acctttccct	nttnncacc	ctaaac		646

<210> 663

<211> 650

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(650)

<223> n = A,T,C or G

<400> 663

aacttaagct	tggtaccgca	gctcggatcc	ctagtcacgt	gtggtggaat	tcgcggccgc	60
gtcgacgtcg	acgcggcgng	ccgtttcgac	gcagttgata	catattatta	tatactacat	120
nggttttcta	gaattaaaaa	attaatgtgt	agtgccagcc	ctagatgtaa	gttacatata	180
tcaactctat	ccaattttgt	cagccataaa	acttaccttt	ttcacatact	tctaactcta	240
acaatgtgag	aaatgtagat	cattgcaatt	ataccacaaa	ggcagatggc	tacatgcaga	300
atggatagca	gaatctagct	acttacgcta	gccacatggg	agacgttttt	tcctttgttt	360
ttgcaaaatt	gcaatataag	ttgcatatcg	ttagagtga	aagatgtaaa	gaacccatag	420
aagccagtga	tgaaggacat	ttatattttc	acctttacaa	angaccttaa	aattgcctat	480
gtggagcaga	aactggagga	gggcnaancc	atcngtaaaa	aaaattttgn	tnctatttgg	540
atttgggcac	cattattacc	tccccaggtn	cctttttgnt	ttaacctttc	ttttaaaaaa	600
aataattcnt	aatttttggg	caaaaaaaaa	caaggttttt	atttaaattt		650

<210> 664

<211> 678

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(678)

<223> n = A,T,C or G

<400> 664

taaaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt	60
atcatcatana	gctaaatgag	agcgctttta	aaatgtagt	ttgtcttcgc	ccattttctac	120
agaaagctgc	aatttcagggt	tttcaacct	ataggtgata	tttaagaaaa	aaaaaaagca	180
atcgcaaata	gccccactgc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca	240
ggtggcctaa	tgtaattttt	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc	300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	360
agcaaaaacta	ggcacgattg	aatcaanat	cttttaggca	agaaagtcac	gatgagtttt	420
anaattattt	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata	480

```

aaaaccacaa aaggtcctga atagcccaaa gcaacactga acaaaaangaa caaagcagga      540
agcaacacac taccggaatt caattatact accaagggtg antaaccaaa acagcattct      600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat      660
cctatatatta cngcccnc                                     678

```

<210> 665

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 665

```

cttttcaaat cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt      60
gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat      120
cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg      180
aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg      240
tggtctttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat      300
agccaaagca aactganca aaaagaacan agcagggaag caacacacta ccngaattca      360
aattatacta ccagggtgta gtaaccaaaa cagcattcta ttggcataaa atagacacca      420
agaccaatgg ancagaataa agaaccaccac aaataaatcc atatatntac cgccanctga      480
ttatcaataa cnaacaccaa gaacatatnt taagggaacnt nctattcaat aantagtgc      540
ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccacctat ccctcaccat      600
acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaaact      660
atnaaancta ctattaagaa aacagatcnc nccc                                     694

```

<210> 666

<211> 705

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(705)

<223> n = A,T,C or G

<400> 666

```

tttaaaaatt tagatacact angaaaatta ttttagtatac agaagaatat caggggggtgt      60
agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc      120
tacagaaagc tgcaatttca ggttttcaac ctaatagggtg atattttaaga aaaaaaaaaa      180
gcaatcgcaa atagcccac tgcttttaca aatcattttt tctcttctag gtatagcctg      240
tcagggtggc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt      300
gccagagata tgctgcact aatccttaagt ggggatttat gtattttctca agcaagtgat      360
taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaaagt catgatgagt      420
tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta      480
taaaaccaca aaaggtcctg aatagcccaa gcaacactga acaaaaagaa caaagcagga      540
agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc      600
tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaaccga aaataaatcc      660
atattttttac agccagctna ttatcaataa aaacnccaag aacnt                                     705

```

<210> 667

<211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

```
<400> 667
nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag      60
agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa      120
tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt      180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa      240
aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca      300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc      360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtcttc      420
atttagctct gatgagtact acacccctga tattcttctg atactaaaat aattttccta      480
gtgtagtcta aactttttta aaaagacatg taatccgagg agtttgtaac tcaaacgag      540
tgcatctagg aggtatcgca agcgttttct ggattaaatt ccagctagc ttgcttgctt      600
agcaggggcg gnaaanaaag acatctgcag cctagggaag aaaacctttc gcattgttct      660
tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag      720
ttgggggtgg ggatcccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca      780
agggtcgtcc tgcatttana ctcggaattt tggtgcc                                817
```

<210> 668
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(826)
 <223> n = A,T,C or G

```
<400> 668
cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg      60
taccattcga gtcctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa      120
gaacaatgcg aaagcgtttt cttccctagg ctgcagattg tcttcttcac cgcccctgct      180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca      240
ctcgttttga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac      300
tagggaaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna      360
atgagagcgc tttaaaaatg ttagtttgtc ttccgccatt tctacagaaa gctgcaattt      420
caggtttttca ncctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact      480
gctttttacaa atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt      540
gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc      600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga      660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg      720
cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga ataccaagc      780
nccctgaach anagaacaan gccggagcac cccctcccaa atcccc                                826
```

<210> 669
 <211> 547
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 669

cattgtgttg	gggaaaaaat	gatttgtata	agcagtgggg	ctatttgcca	ttgctttttt	60
tttttcttaa	atatcaccta	ttagggttga	aacctgaaat	tgcagctttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaga	240
catgtaatcc	gcggagttag	taactcaaaa	cgagtgcac	tnggaagtat	cgcagccggt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcggtnaa	aaaaacatct	360
gcagcccngg	ggnaaaaacc	ttcgcattgt	tcttacgtgt	ttacgttatt	ttatttcctt	420
nnagcaaggc	ngggantttg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaag	ncgtccagaa	gagggacggt	tacaggcngg	ganctccaaa	ggtcagtccc	540
tgccatt						547

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 670

cgaactat	ttt agactaccta	ggaaaattat	tttagtatca	gaagaatatc	aggggtgtag	60
tactcatcag	agctaaatga	gagcgcttta	aaaatgttag	tttgtcttcc	gccatttcta	120
cagaaagctg	caatttcagg	ttttcaacct	aataggtgat	atttaanaaa	aaaaaaaaagc	180
aatcgcaaat	agccccactg	cttttacaaa	tcattttttc	cccaacacaa	tg	232

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(214)

<223> n = A,T,C or G

<400> 671

ctcccccttc	ntccttcgct	actncncatt	ttcnnaaatt	tntttcgcnt	atngngaaaa	60
acaccacat	tnttcancct	gcacagaaca	ngnnggggtg	tgtaaaatga	agggcttccn	120
cnctttctct	tattnaanaa	cactnaaana	gggaggggct	aaaacccgcg	ngatntctac	180
nctatcgcg	gcgcttttgg	ngttggctag	aaga			214

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

ngancagcgg	ngtttaaacg	ggcctctaga	ctcgaggaga	cncctgttgg	atggtggatc	60
acanntcgnt	actactatac	aggacagagt	atcggganct	cttggnrtgtt	ggngcctgcc	120
aaccactgct	nctgttaact	gcgtatctga	agggactcgg	actggcttca	gaagaactac	180
cggetcgaat	gnaccatgga	tgattcncnc	tagttgaaaa	aaaactcagg	cacatgtatt	240
gccactgatg	actagcgcca	gactnctctc	ggctctntaa	cgagcccaca	tgncngtgtg	300
ncncccggtgc	tgntctccaga	agagggttc				328

<210> 673

<211> 223

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(223)

<223> n = A,T,C or G

<400> 673

gggggcaaag	ctggctagcg	tttaaactta	agcttggtac	cgagctcgga	tcccnagac	60
attgtgcatg	aaaatgcaaa	ttgagtgtgg	tctatantgc	catctcacc	tnctgncngc	120
tcaaaacaac	ngctttctgc	tgcaatgggt	agggtcctn	acncacggtc	gcnnacggag	180
gccncttat	cctctcggg	nnggatecct	ngaagcatnt	tct		223

<210> 674

<211> 256

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 674

gnggggtcnt	ngatgagcgc	gcgtaatacn	atcactntcn	ggcgngntgg	gtaccgggcc	60
ccccctcnaa	gcggccgccc	ttttttnttt	ttttttcatn	acatgataan	ntctttnttc	120
taaacagacc	acaccactan	agttcctttt	ctttngtacg	gaattgagtt	aaagtagagn	180
atacaatgca	gggcttcnnc	tctattttcac	attccaggnt	ggttcngnat	ggatcggccc	240
tgctctccg	atgggt					256

<210> 675

<211> 439

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(439)
 <223> n = A,T,C or G

```
<400> 675
nnactagtcc agtgtggtgg aattccattg tgttgggctt gtatggggtt ttttgtctag      60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct      120
tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcctttccct      180
tcatgactga gtggtggttg tactatccng gaaactggga cattgtcctt cacatctntc      240
ccttanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc      300
ctnctctgtg actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct      360
tcacgnatct gttingttnc atncttgctg cttctccngn ggaaaatagg ctnttctggc      420
aaccgaacng aanaaatac                                     439
```

<210> 676
 <211> 587
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(587)
 <223> n = A,T,C or G

```
<400> 676
ngngggcctn attaagcgcg cgtaatacna ctcactntgg ggcgaaattg gtaccgggnc      60
cccccaagt tnatntgccn aacctctctt ttggaataac aaaaggttta acacatatgt      120
cctcataggg acgcgctttc acacnttctt gacngcttca tanacntcat tncatattct      180
cctcagnaca agttnaggen gaaggtgagg canacnttat aatttccatt tcacaaatnc      240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct      300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact      360
ctggagaggg ttcattctcg acaaaggaag ggacntgagt ggctgganaa tctcatggga      420
taaagacctc agnatctcat gctcctggaa atcccattgg ttgaacaaca ggtntttggc      480
ccgtggttct ntccctttgn ccatctttta accttggggg aaatgatggc ntctntnagc      540
nttttttttn aaagagatng aaattgaatg attatnngct cattggg                      587
```

<210> 677
 <211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

```
<400> 677
gtggggcatn attaagcgcg cgtaatacga ctcactatag gggcgaaantg ggtaccgggc      60
ccccctcgaa gcggccgccc tttttttttt tttttactgt ccaaactntc tatngatnta      120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggc ccagagagta      180
aaacaaaattt aaatttnttc accanattgn agcagncana agcatccnat natatccgac      240
tacaatgaat natatgctna nggtanctna tttaccctact ntgggggtctt tanggtctgt      300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa      360
ntctattttn tntaccctag catnctgtg gctnactttt cgggctgtgt tggcntactt      420
```

ttaggagaaa attggtataa atnn

444

<210> 678

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 678

actagtccag	tgtggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aatatacnac	tcttgatnaa	acataaaggt	acagtggctc	atgaggaana	gaaaaggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tccnnanaaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggt	ctggaagggt	tttcagattg	cttaaganac	300
gnggcccttc	catattcntc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaaagcgcc	cttcccntcc	gaacgctttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttntcngct	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tgttggtttg	caaatgcngg	aatttgttta	ctttcntcat	gtcctgtgtt	gnncnaaccg	540
gctcncctgt	tgctccctt	tngaaagggt	ttcatcaggc	cccgcccttt	ctcttntaan	600
ngtcctaadc	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
ccgtccggt						670

<210> 679

<211> 449

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aagancttan	caacnttcat	gatccccccc	tctntannct	tttctcanc	120
tgctcctag	tcctgtttgt	cctnttccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tcgggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
ntccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgatc	300
cctccentac	ctcccnnncc	attgggnccc	aanggnactg	gacctcaega	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttacccecn	gaacncagcg	420
aacngcnaca	ccttggaent	caagaanta				449

<210> 680

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 680

tttcngtggtg	gtggaattcg	cggccgcgtc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagga	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tccactgtct	ngcaactatt	taagtttgc	antcccttga	aaacaggtac	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcactctaac	acctcaactc	cctgtgcaag	360
aacagatttt	caatgtctac	tgatgatttt	aaatggatta	nttcctctct	ttacttctta	420
agggcatgaa	gntttatgaa	acaaaactat	ncagttccag	acgtttaacc	cacatagtgt	480
taatagtcac	cttcaacaca	cnactaaacc	cccaaaaaan	gntttttacg	gngtttcgac	540
agttttcttt	tctttttgac	ttgnntaaca	cccnngacaa	ctttgtncn	tttcnctgaa	600
tcacancctt	cnaanancca	atggtncggg	tttttctcnt	tcngggccct	tcccttnttn	660
aaaaccan						670

<210> 681

<211> 494

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(494)

<223> n = A,T,C or G

<400> 681

tcatgggtgc	cacagtctga	tgtgagcgca	ttaaatttaa	ggatctccgc	ccttctcctt	60
aaaactcagg	acttggcaat	gancctagga	agcgccccctc	ccctccccaan	ccanatccaa	120
gccccggacc	gctgcgnctc	cagctgcgcc	tagtgaaacc	gccgaattcg	aattcacact	180
cggngggccg	gcgaagggtg	gcgcgcccgc	gggagcgccg	gggcnagccc	gagggactgc	240
aagccaanaa	nggaggcag	ggtggcgggg	ggcgccgtct	gatccaggaa	ggagcgagg	300
gcgccatcac	acactcttna	gacgccctgc	ccgcgcctgg	ccagcgcgca	gnctgcagga	360
cgcgcggagc	aggaactcgc	tggagtttgc	caagccccaan	gnctctggaa	agtntgtagc	420
tccctttcgg	ancgnctctt	ctggcccttt	gggacgggtg	tgtcattggg	cgggggtctg	480
tataaggggg	ggac					494

<210> 682

<211> 263

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(263)

<223> n = A,T,C or G

<400> 682

tgatcattca	agcgntgngc	gnataacgat	tgctnagccc	aacctttcat	agggtcgttc	60
ctttgggaat	nggatgtcta	ttgaatggca	gggatagggg	cactcggcac	tcgcctctgg	120
tacagttttg	catatatatc	ctcatcgcca	gcgagcgtag	gggancgtta	agtttgggga	180
aatgccnccg	catgnccctn	ccggagctta	aacccccaac	aatnccatt	ttnaaaaaag	240
ntttnttant	taaaaaaaaa	aac				263

<210> 683
 <211> 255
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(255)
 <223> n = A,T,C or G

```
<400> 683
cttgcccggc atgcacagac ntntttacgg acacnctact ccaagnagac ctgnanctgt      60
ctacgggtcaa nctctaaggt tngncantgc cacanatggc atagtcccgga gggcggtnan      120
tctggantgc tctctgcact tgaacntaaa ggcgntttca aganaggncat aatngcctgc      180
ctcttgacaa cnaacaancc cacaccnacc tangaccctn tangcaagga ctggattctg      240
naaatgcaat acaca                                     255
```

<210> 684
 <211> 922
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(922)
 <223> n = A,T,C or G

```
<400> 684
acccttcatt tcatgtgctt ctattttctt acatctttta catgactaag ggattaatga      60
aatcacctct tcataatcat gaccataatt tcatccaaca agtactcaag tttgggtgta      120
gcacttttatt aatgcttacg aattctctct ctctccctct ttctcttttc cttagtcctt      180
gcacaataag gatttttgaa tgtataatat catcttaggt aagctttcat atgggttttg      240
cattatgaagc ttatgactgt cataagccat accaagcctg tggagtatgg catgattttc      300
attacataat ccaatgaaaa tagacttatt ttaaattccct aactttgtag ttttaatttg      360
tattttcacta tcttgaaaatt aacagctagt acttatccat cacagcagtc tcctactgac      420
atgaagcaag ttgttgaatg cagtaganca tgaatgaaag catttaatgt tanacaaaaa      480
tgggtgatac ccaagcattc tgaattatct gcatcaagga atgggacatg tacattagtg      540
gcatcatttc taccaatatg tgacttgaat tgttttttta aaaaaaggan aatgantttc      600
tcaatttgct ttaaaaaaatt ttnaaaaagt tcaatggcat gctgctttgt ctggacttaa      660
tttattaaca attnttaanc ctctcttaag gacanaattt tgggtgttcag gatcnccttg      720
aagggtctta tttttnatan nattccaaac ccaaaagggt gtttaaaatg ggnggggttc      780
ccccncnaaa atttgaccg gcttttttat atttaaaaaa nttncctttt gngtttgaaa      840
nctnaatacc aattaagggg gaattttacc tnccagtggg aaaaaaaaac nctngccttt      900
naaaaaattc ccnggagnca at                                     922
```

<210> 685
 <211> 531
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(531)
 <223> n = A,T,C or G

```

<400> 685
tgaggctctg taaaactggt cctctgctag gcatacttca tattctctat attaaactca      60
tctttaattg gcatggaaga ttcatgttgc caaatctcag atgaagatcc tatattggat      120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgtc actgctagcc acagccagga      180
cacagtaaca gttccttcta gtgaccnag accataanaa atananatct aaagaattct      240
gactccaaag gcattagccc attcctggta ttgccaatTA tgatagaaaa aattgccaaag      300
ctcctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat      360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng      420
attacacatg tttactacaa gagatgttna taagtaaaga aggctgata tacaatctaa      480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g              531

```

```

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

```

<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc      60
tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa      120
agctctnatc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat      180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc      240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac      300
ctagggctta tttgagagca ttttcagtg cagatt              336

```

```

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

```

```

<400> 687
aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcatgaatt gggttttcag      60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc      120
atttaggatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt      180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc      240
tctctgagaa gaggacatag cttgtagtgt t              271

```

```

<210> 688
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```


<222> (1)...(740)

<223> n = A,T,C or G

<400> 688

tgatgaagcg	cgcgtnntac	nactcactat	nggggcgaan	tatgggtacc	gggnccccct	60
cgaagcggcc	gccctttttt	tntttttttg	tgagagttta	aataaaatat	ttgagttaa	120
tttaaagttt	gagtttaatt	aaaatatatg	gcataatcca	agttgggctt	tgcanaaaaga	180
acacttctca	ggaactgtta	gttggtgtac	caggaactca	gaagggtcct	gttattaaat	240
atatttgga	aatgcatgga	ttctctgaan	atcncctctg	atgtgagcaa	cacttacatc	300
ncaaaccaaa	attggcattg	catacatnaa	ccaatatttc	ccaaacattt	ctggttatgg	360
cccacccccct	ttgtgtanta	cttattgctg	ttttttggaa	ccctggggaa	attacttaaa	420
atattcagct	ggaaattaca	ggcgttactt	ttaaggganc	aagaattaca	gtgactccca	480
aaattgcaag	tggtgattac	tatttaagaa	cccaagaatt	tgaaagaaat	tttgaaaagt	540
gaaaacngga	aatnttaaat	gacttctcaa	atthtgaaaa	ctcnggnaaa	catctccact	600
ttggtncct	tccttttaaaa	attggctaaa	aattntttnt	tatnccacc	ccattggaan	660
tncccccccc	ctggaacaat	tggtattccc	tatttcctaa	aaaacggccn	cccccccccg	720
gngaacncc	nacnttttgn					740

<210> 689

<211> 635

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(635)

<223> n = A,T,C or G

<400> 689

actagtccag	tgtggtggaa	ttccattgtg	ttgggattac	atatactttt	agcaattttt	60
aaagaagtgt	acaaagttga	gatgtttcct	gagctctcat	atatctgana	atgtcatttt	120
acatctccgt	cttcacctct	caaaacttct	ttcaattctt	tggctcttaa	tagtaatcaa	180
cacttgcaat	ctggagtcac	tgtaattctt	gtcctcttac	agctacncct	gttatttcca	240
gctgaatatt	tttagttatt	tcccagggtt	ccaaaaaaca	gcaataagta	ctacacaaag	300
ggggtgggcc	ataaccagaa	atgtttggga	aatactggct	catgtatgca	atgccaaatc	360
tggtttgcna	ttgtantgtt	gtcacatgc	agagtgaatc	ttcaaanaat	ccatgcattt	420
tccaaataata	tttaataaca	gggaaccttc	tganttcctg	gntacaccaa	ctaacagttc	480
ctgaaaaatg	ttctttctgc	aaaacccaac	ttggggatat	gccatatatt	ttaattaaac	540
tcaaacttta	aattaaactn	caattatttt	atthtaaaact	cctcaaaaaa	aaaaaaaaaa	600
agggggggcc	cttccaangg	ggggnccggt	tcccc			635

<210> 690

<211> 3923

<212> DNA

<213> Homo sapien

<400> 690

acagaagaaa	tagcaagtgc	cgagaagctg	gcatacagaaa	aacagagggg	agattttgtgt	60
ggctgcagcc	gagggagacc	aggaagatct	gcattggtggg	aaggacctga	tgatacagag	120
gaattacaac	acataactt	agtgtttcaa	tgaacaccaa	gataaataag	tgaagagcta	180
gtccgctgtg	agtctcctca	gtgacacagg	gctggatcac	catcgacggc	actttctgag	240
tactcagtgc	agcaaagaaa	gactacagac	atctcaatgg	caggggtgag	aaataagaaa	300
ggctgctgac	tttaccatct	gaggccacac	atctgctgaa	atggagataa	ttaacatcac	360
tagaaacagc	aagatgacaa	tataatgtct	aagtagtgac	atgtttttgc	acattttccag	420

cccttttaaa	tatccacaca	cacaggaagc	acaaaaggaa	gcacagagat	ccctgggaga	480
aatgcccggc	cgccatcttg	ggtcatcgat	gagcctcgcc	ctgtgcctgg	tcccgttgt	540
gaggggaagg	cattagaaaa	tgaattgatg	tgttccttaa	aggatgggca	ggaaaacaga	600
tcctgttggtg	gatatattt	tgaacgggat	tacagatttg	aaatgaagtc	acaaagtga	660
cattaccaat	gagaggaaaa	cagacgagaa	aatcttgatg	gcttcacaag	acatgcaaca	720
aacaaaaatgg	aatactgtga	tgacatgagg	cagccaagct	ggggaggaga	taaccacggg	780
gcagagggtc	aggattctgg	ccctgctgcc	taaactgtgc	gttcataacc	aaatcatttc	840
atattttctaa	ccctcaaaac	aaagctgttg	taatatctga	tctctacgg	tccttctggg	900
cccaacattc	tccatatatc	cagccacact	catttttaat	atthagttcc	cagatctgta	960
ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgccta	atgtagctga	ctgtttttcc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcatttccca	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	ttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tgggaattta	1320
attacatatt	ttgttttcca	gtgcaaagat	gactaagtc	tttatccctc	ccctttgttt	1380
gatttttttt	ccagtataaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
agcctctccc	catccctcca	gccttatctg	tcatcaccat	caacccctcc	cataccacct	1500
aaacaaaatc	taacttgtta	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttaaatctag	aatgatgtaa	agttttgaat	aagttgacta	1620
tcttacttca	tgcaaagaag	ggacacatat	gagattcatc	atcacatgag	acagcaaata	1680
ctaaaagtgt	aatttgatta	taagagttta	gataaatata	tgaaatgcaa	gagccacaga	1740
gggaatgttt	atggggcacg	tttgtaagcc	tgggatgtga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcatttctc	tatctctatc	acaatatcca	acaagctttt	1860
cacagaattc	atgcagtgca	aatccccaaa	ggtaaccttt	atccatttca	tggtgagtgc	1920
gctttagaat	tttgggcaaat	catactggtc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgtagttaa	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttaggggt	cactcctggc	2040
aataaagaat	ttacaaagag	ctactcagga	ccagttgtta	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtacat	gccaaagtgt	gcctctctct	cttgacctat	tatttcagac	2160
ttaaaacaag	catgttttca	aatggcacta	tgagctgcca	atgatgtatc	accaccatat	2220
ctcattatlc	tccagtaaat	gtgataataa	tgatcatctg	taacataaaa	aaagtttgac	2280
ttcacaaaag	cagctggaaa	tggacaacca	caatatgc	aaatctaact	cctaccatca	2340
gctacacact	gcttgacata	tattgttaga	agcacctcgc	atgtgtgggt	tctcttaagc	2400
aaaatacttg	cattaggtct	cagctggggc	tgtgcatcag	gcggtttgag	aaatattcaa	2460
ttctcagcag	aagccagaat	ttgaattccc	tcatctttta	ggaatcattt	accaggtttg	2520
gagaggattc	agacagctca	ggtgctttca	ctaattgtct	tgaacttctg	tccctctttg	2580
tgttcatgga	tagtccaata	aataatgtta	tctttgaact	gatgtctata	ggagagaata	2640
taagaactct	gagtgatatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctggtcaaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgtcccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgc	tctgagatcc	ttaaatcaag	gaaaccagt	2820
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gacacatatt	agcttctagc	ctttgcttcc	acgactttta	tcttttctcc	aacacatcgc	2940
ttaccaatcc	tctctctgct	ctgttgcttt	ggacttcccc	acaagaattt	caacgactct	3000
caagtctttt	cttccatccc	caccactaac	ctgaatgctt	agaccttat	ttttattaat	3060
ttccaataga	tgctgcctat	gggctatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagagggtc	aaaatccaac	tcattatctt	ctctttcttt	caacctcctg	ctcctctccc	3180
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cctcatgggt	ggaggggacc	actcctgggc	tctcgtgatt	gtcaggagca	agacctgaga	3360
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tcttggcata	ctatatcaac	tttgattctt	tgttacaact	tttcttactc	ttttatcacc	3600
aaagtggctt	ttattctctt	tattattatt	attttctttt	actactatat	tacgttggtta	3660

ttatTTTTgtt	ctctatagta	tcaatttatt	tgatttagtt	tcaatttatt	tttattgctg	3720
acttttaaaa	taagtgattc	gggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaattgc	atgtgggact	taaaacctag	atgatgggtt	gatagggtgca	gcaaaccact	3840
atggcacacg	tataacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

<210> 691
 <211> 882
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(882)
 <223> n = A,T,C or G

<400> 691						60
ttactcacta	tagggctcga	gcggccgctg	aattctgctg	cagtgagctg	tgattatgtc	120
cctgcactcc	agcctggatg	acagaacacg	atcatttctc	taaagacaaa	caaaaaacat	180
aaaataaaaac	tagtataaag	atagaagccc	agggttgatt	taagtctgcg	gaaatcataa	240
accataggtc	agacttctca	ttgatgaggt	acttggtgggt	tagaatacaa	ttaggtatat	300
ttggtctaga	aaccaggatg	gaattagaga	ataaaaagact	gagcaatagc	atgttatagt	360
attagaaata	ctatagaaat	aggaaaagcc	ctgattatga	ctttggagtt	ctgatccaac	420
atctgggatt	atttagatat	tttaaaggaa	aacgatgact	tttagctctc	aggatgtag	480
tttctcctcaac	cataaaaatga	agagcctcga	aaagatttctg	tttaccagat	tatttctgaa	540
gtcaattcca	gttctaaaat	tccatcactg	ngcactaagg	caaattgaat	tgaataaagt	600
attgggnatg	cataaaaatc	tctattttta	aaaangaata	gtaattatcc	attggnaaca	660
gacgcantca	tccagncatc	tcctaccctg	ncccatgnen	tatgtagana	tgtanctcta	720
atcccttaac	aaaccgattt	tgcaaaggag	cttanccttg	gggtacttgg	tcanggcaac	780
tggtctactt	tnaagactca	tcttcaacta	ctgggcacca	aatncctacc	attgcatcaa	840
actgggggttc	ccatncaagg	caaaccctgn	gaaatcttta	atcccgaat	tggcgcccaa	882
ttttgngggg	tttcnnaaaa	gaatcntccc	ccccgagggg	cc		

<210> 692
 <211> 235
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(235)
 <223> n = A,T,C or G

<400> 692						60
ccgcactngt	aangnccgcc	agnngctgn	aantccgctn	agcncggatc	cactagtcca	120
ttgatggtaa	aagggtagct	tactggnatg	tccgntctgct	ccanganata	atacncagga	180
cttctcanag	cacttaatat	gttaatatata	aactncngna	aaaaagatnt	tcnatgaanc	235
nttctcttta	ggaggtcagg	ngagaatagt	gttaatgnca	ttaagganag	aacga	

<210> 693
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 693
 nttatgtaag aaatgtcata tatcttttat tttctttaaa tcaaaataaa tatgactttg 60
 agcatcccat cccatgcccc atcctatcag aatggtagga acatcaacac aaataattag 120
 taatgcaccg catctacatt cccatgctct ctttacttct tcagcattgc ctaaaggcat 180
 aatacacctt taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga 240
 ctctgtccat aatggnaaac ctgnatgatc cttgatatta acantttaag gaatgctcat 300
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 gaagcatttg cacatattac ata 383

<210> 694
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 694
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 actgtccctt atttttttcc ctcccaggct cataactcga ggttaaactc tcttttatac 120
 aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtgggtat 180
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<210> 695
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 695
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 agggccaccc agaggaggag acggaggcag agacaggggc caccanagg aggagacgga 360
 ggcagagaca gggccaccca gaggaggaga cggaggcaga gacagggcca cccaaaggag 420
 gagacggagg cagaanacag gcccccccaa agaaganacc ggaggcanaa aacagggcca 480
 cccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa 540
 cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggaggaag 600
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 ggggcccnnc 670

<210> 696
 <211> 317
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 696	
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gcccactgtc atcgtggata catttcactt ttttcacatg actaaggagc tctccggagt	180
gaagagtgag taaatatggt tattacgcat tcatttgcta agaatcatca agaaccctaaa	240
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<210> 697
 <211> 246
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(246)
 <223> n = A,T,C or G

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tttttttctc tnacagagnt ntttttgtgc ccttggttct tatgtctana ctncgcaaaa	180
aanatcaaaa gntacnnatg aaaaacntat nccatctnca naaaggagggt gnagntatta	240
ctttct	246

<210> 698
 <211> 3674
 <212> DNA
 <213> Homo sapien

<400> 698	
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agccagtga acatatttct tcttctctcc atcaggccaa atcacgggtg tgaccttggc	180
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<210> 699

<211> 2051

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(2051)

<223> n = A,T,C or G

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aaaaaaaaa a                                     2051

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<210> 700

<211> 2841

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(2841)

<223> n = A,T,C or G

<400> 700

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ggcaggccac cacctttgct gtttgggtga ctagccgttc tggcctgcag gctttggaga      240
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<210> 701

<211> 3228

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(3228)

<223> n = A,T,C or G

<400> 701

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<211> 6976

<212> DNA

<213> Homo sapiens

<400> 705

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<210> 706

<211> 123

<212> PRT

<213> Homo sapiens

<400> 706

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Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val
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```

```

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
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```

```

Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
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```

```

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
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```

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
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```

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
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Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
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<210> 707
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 707
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Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
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Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
 35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
 50 55 60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
 65 70 75 80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
 85 90 95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
 100 105 110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
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Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
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Leu Trp Leu Ala Leu Leu
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<210> 708
 <211> 371
 <212> PRT
 <213> Homo sapiens

<400> 708
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 20 25 30

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 35 40 45
 Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
 50 55 60
 Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
 65 70 75 80
 Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
 85 90 95
 Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
 100 105 110
 Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
 115 120 125
 Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
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 Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
 145 150 155 160
 Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
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 180 185 190
 Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 195 200 205
 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
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 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
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 Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu
 260 265 270
 Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg
 275 280 285
 Arg His Tyr Asp Glu Gly Lys Ala Leu Ala Ala Ser Arg Gly Trp Cys
 290 295 300
 Gly Ser Arg Pro Pro Glu Thr Thr Leu Gly Ala Val Ser Gly Leu Val
 305 310 315 320

Pro Leu His Pro Gly Pro Asp Phe Ser Val Arg Lys Val Gly Met Asp
 325 330 335

Pro Ile Cys Ile His Gly Phe Ser Trp Val Trp Asn Ile Ser Ala Cys
 340 345 350

Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val
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Ala Pro Val
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<210> 709
 <211> 141
 <212> DNA
 <213> Homo sapiens

<220>
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<210> 710
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(196)
 <223> n=A,T,C or G

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<210> 711
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 <212> DNA
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<220>
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 <223> n=A,T,C or G

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<210> 712
<211> 185
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=A,T,C or G

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<400> 712
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<210> 713
<211> 172
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=A,T,C or G

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<210> 714
<211> 112
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)...(714)
<223> n=A,T,C or G

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<400> 714
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<210> 715
<211> 326
<212> DNA
<213> Homo sapiens

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<220>
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 <223> n=A,T,C or G

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<210> 716
 <211> 122
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(122)
 <223> n=A,T,C or G

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<210> 717
 <211> 203
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(203)
 <223> n=A,T,C or G

<400> 717
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<210> 718
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)...(168)
 <223> n=A,T,C or G

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<400> 718
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<210> 719
<211> 210
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(210)
<223> n=A,T,C or G

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<400> 719
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ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtnggggatnc cacanaaaaa 120
aganatntcg gncgcttcat tantcactct tcttaccan ntctctngat noncagtntg 180
ancntgaacg cacactacng gatntctcca 210

```

```

<210> 720
<211> 131
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(131)
<223> n=A,T,C or G

```

```

<400> 720
tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60
cgnanactta ggggtcact gcgagccacc ggccacaggt cgtatagggc aaagcacgng 120
gaagcacccc t 131

```

```

<210> 721
<211> 121
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(121)
<223> n=A,T,C or G

```

```

<400> 721
tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
naggaaaaan ganccaacaa ctaaaaaaaaa nncggncgtg ncagcttnga tgactngtcc 120
a 121

```

```

<210> 722
<211> 246

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(246)
 <223> n=A,T,C or G

<400> 722
 anctggagtc ggcgctgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60
 gnttcntcga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120
 gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
 agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240
 atcaag 246

<210> 723
 <211> 160
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(160)
 <223> n=A,T,C or G

<400> 723
 cctccggaat atccaantag agtaantncn ctctaattccg gggnaattgg nggggttnnat 60
 acgtcctcct cccccagnt aggattnana aaaggntctc cagancaaaa nctccaaagt 120
 gnatchanta gccgtncctg anatchaac cccctacgtc 160

<210> 724
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(156)
 <223> n=A,T,C or G

<400> 724
 tnanccnata tacaccaaat tctgattcta aantcccacc caagggaaaa aagttgagaa 60
 gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120
 acctccttag gcccttgntt ggaacaancg aaaatc 156

<210> 725
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(347)
 <223> n=A,T,C or G

```

<400> 725
aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtgg atccaaagaa 60
ttcggcacga gagacggtgc gcgatggacc gagggcccca gccgngagg cgccgccgcc 120
gagcccgcgg ncagacgccc catcagtagc gtccgcaccg ggnagccgag gntctcgccc 180
gagccgtggg cgcgcccgag gggcgggctc gctcccgcgc gtccctcgca gctctgccgg 240
gcccagagccc gcgcgctcgc cgccgcgcgc ttgccgctcg gnccgcgcgg nccggnaaac 300
gcggtcgagg tctggatgng gcanngcccg cncctntcgc tgagcct 347

```

<210> 726

<211> 162

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(162)

<223> n=A,T,C or G

<400> 726

```

ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaatact 60
tcccgcttt tnggtnccca aaganacnaa gggggagtc cttnatagag gnagngcgat 120
nctcncaac nactngact ttgnccatgg ggagnaaggt gg 162

```

<210> 727

<211> 120

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(120)

<223> n=A,T,C or G

<400> 727

```

gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgcca aagnacaggg 60
ggggtcnctt anagnnagg gggttcctcc ccaccacttg ncttgnccat tngagnaag 120

```

<210> 728

<211> 130

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(130)

<223> n=A,T,C or G

<400> 728

```

gaccactgc agcgttnaac ttagcttggg ccgagctcgg atccctagtc cgtgtgggtg 60
aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
atattcgcat 130

```

<210> 729

<211> 182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n=A,T,C or G

<400> 729
 cngactgctn gcgttttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
 gctggctgct tccagtcgat tanatttgtg aaaaagctga accncngccn gttaaggggg 120
 annatgcaaa anatncatcc nnetgccccn taaactgntc tntccnaggg aaaaaangga 180
 ag 182

<210> 730
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n=A,T,C or G

<400> 730
 cactcncact ccggacctag gcncttcacc actgctctct tectectect cctcctcnc 60
 ctgggggctg ggggaccttc ccagtgacc atctcacttt ggctgaancc cactcggggc 120
 agcctgagtt tggggctctt ggctttctca ccctcctcgg cccctcctt ggcccgacc 180
 aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
 acctggtaact cggcatgggt gccccggga tggcgagagc tccacgtcgg gcagtgagaa 300
 gcagaaagta cgctcggccc ctgggggctg ctctcagca ccctcgcccc ccacctagc 360
 tctggccccc agtgtgggca acttcagcct cagcccaacc tcgctgtgg ccgctcgcc 420
 cgctgtgccc tctcggtta gcccacgtc caactcaagc tggggcactg tcacgggtgg 480
 catcttaag acacctcac ccaccagcag ctaccacct gcaacctggg ctccaggcaa 540
 aaaaagggtc acctggggca nctgaacct gtacctgctg tgccctctgc tgaanggaat 600
 gttatctgaa cctgtgccc tgggggtact gccttcccaa aaccgggtca antccacctg 660
 ttggaaggna aatncccc 678

<210> 731
 <211> 135
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(135)
 <223> n=A,T,C or G

<400> 731
 gagatccgac gtcacccct tccggcggcc caagacgctg caactcccga ggngcccaa 60
 atatctttgg aagagcgtc ccagcccaac acaatggaat tccaccacac tggntagtg 120
 gatccgagct aagcc 135

<210> 732
 <211> 660
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(660)
 <223> n=A,T,C or G

<400> 732
 gcttggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
 tcaatcagnt nacgagctgc atggtctgct aacattgtca taattgctgg catagattac 120
 tgaaaaataaa gaaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
 tacaagttat tttacttcaa ccatgttatt acaaattttt taatgaatac tttagagact 240
 ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
 ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
 aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
 tccactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaac 480
 tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
 cttctgaata actcagnaag gctcacttcc attatcttac tttataaaaa aatgctataa 600
 gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

<210> 733
 <211> 836
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(836)
 <223> n=A,T,C or G

<400> 733
 aattaatgac tttttttccg ccctgccaaag ctagtttgtc taaatataat gttaaagaaat 60
 tagctactca tttcttggtc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
 ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
 tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tggggttagag ctattgggtc 240
 ctacagagtct caggcatctt agacccccaa aaagggttaag gactactgac ttaaccaatt 300
 aggttttgagt ggcattggct ttgaagaaaa gcagaggaaa gatataatctt ataattctgg 360
 gcaacaaaaa agtggaatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
 ctgcatatga actagtaggt ttaaccagt gcataatttag gcgaagtagc tcatttttct 480
 gttagaattc ttttttattt gggaatgggc aagcttttac agcttttacc ttgccaatga 540
 atacctggaa ttttaaaaaat cttgttaggc atattgccc taaagttttt tttcctagat 600
 catatattca gtaaatatgt ttgtagcttt atttcaatcc cccaattcat tgaggggtga 660
 aacaatttga atggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
 ataccaanat atgttagact tnggntcct gttaaccatg ctgtanacaa taggaattac 780
 tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntggtttga gangga 836

<210> 734
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n=A,T,C or G

<400> 734
 nagtnctatt tncactaaac tngnagtgcc ttggatggct ttcaggatgt cctgaatcct 60
 ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
 gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattagggt 180
 ttgagtggca ttggctttga agaaaagcag aggaaagata tatTTTataa ttctgggcaa 240
 caaaaaagtG gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
 atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
 gaattctttt ttatttgagg atgggcaagc ttttacagct tttacottgc caatgaatac 420
 ctggaattta aaaaatcttg ttaggcatac tgcccataaa gttttttttc ctatgcatac 480
 tattcagtaa atatgtttgt agctttattt caatcccca attcattgag ggttgaaaca 540
 atttgaatgg tttgagtgtg gaagctaagt tatttctgta gaggctaagg gcatttatac 600
 caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatag gaattactgt 660
 atatccacat ttttaatttt aacatcattc tgtc 694

<210> 735
 <211> 126
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(126)
 <223> n=A,T,C or G

<400> 735
 ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
 cgaattcggc acgagtcctc ctctctctct ctctctctct ctctctctct ntctctctct 120
 ctctct 126

<210> 736
 <211> 165
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n=A,T,C or G

<400> 736
 cagaagcctt taaaccgggt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
 tcgtgccgaa ttgggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
 ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

<210> 737
 <211> 125
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(125)
 <223> n=A,T,C or G

<400> 737
 ggnagcccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
 cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
 tctct 125

<210> 738
 <211> 137
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n=A,T,C or G

<400> 738
 ggagncnctt gancaggatg accgaattca ggccctgtgcg ctcaatcgtg gagaatctcg 60
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
 tctctctctc tctctct 137

<210> 739
 <211> 970
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(970)
 <223> n=A,T,C or G

<400> 739
 aggctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
 tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcattgaga 240
 catttttctt aactgagcat agccatgaac ctctcacgct tgttcctctg tgtcagtttg 300
 tancactgaa tacagcagcc ctccataaaag tccaggcagt gcacaggctc tgacatgatg 360
 aagtgacgtg ttgctatggg gattttgcag ctggccaaat agtcactggg tgattttacc 420
 cagcaggaga tttttgcaaa aatttctctg gtgagagtga aatcaaactc ctattttgnt 480
 tctcctctgc aagctgnagt taagatggat taatgagtac ttttagatta attactctg 540
 aagagaaaaat gggagaaaaag tgaggaaggt tgttggcaga agtcattgct ggaatccttc 600
 tgaagggagt actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
 tacgcataatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
 aagaaaaagt ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
 aaaaatgntn gggggccttg ggtgggtggc tnaaaanacc ccctggggat ntttaaacca 900
 aaantgaaga agggaaaaat ntttcccent nttttnttt tttgccccct tgggattggn 960
 tttnttttcc 970

<210> 740
 <211> 739
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(739)
 <223> n=A,T,C or G

```
<400> 740
gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggtctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactgggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtgaa atcaaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc                                     739
```

<210> 741
 <211> 1171
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(1171)
 <223> n=A,T,C or G

```
<400> 741
gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcggcc gcgtcgacgg cccttnntgc cactagttct ttcattcttc cccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggatttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttcctaaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggattaa tggagtactt ttaaagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggaag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan tttnggcntt ggggaaaaat tccccntttt ccttggnaaa 660
aggggggnaa ggtaancct tgggaacctt tttccnncct tttnggccca aaaggggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaacctnt 780
ngggcccccg ggccctctc caanaaggga aaaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttggtga atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggttttgg cnccttaacc cgcnttttaa attcaaanna aaaaaaagng 960
```

```

gtttggaaaa nnaaanaaaa aaaattnaaa ggncccnaaa aaaaaccctg gaaaaccttt 1020
ggaaaaaaat tngnnggggg gccntttggt tggggggggt tnaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttnngccc 1140
cccttgggga atggnttant tcanggggcc c 1171

```

```

<210> 742
<211> 739
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(739)
<223> n=A,T,C or G

```

```

<400> 742
gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcagagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tgGCCAAATA gtcactgggt gattttaccc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtgaa atcaaaactcc tattttggtt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaactt ggccgtgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaattt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc 739

```

```

<210> 743
<211> 610
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(610)
<223> n=A,T,C or G

```

```

<400> 743
ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
taaatttttg atagacattc ccaaatatta tacctgtttt tgagaccttt aattcctggt 120
gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaa 180
gattatatat aaccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaaact 300
ctaggtagga taccgagggt ccacaaattt ttcataagaa atattttttc tctgccctat 360
gagattttaa aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
gctctgnat cttggacagg tcaattgact tggcttaatc ttctcatcca tttagnngag 540
acagcaccac tattcacagg actattgnen gaattaccag acaatagcat aggnngaaaat 600
ataangcctt 610

```

```

<210> 744

```

<211> 127
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(127)
 <223> n=A,T,C or G

<400> 744
 ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
 gcacgaggga gagagagtn gagagagaga gagagagaga gagagagaga gagananaga 120
 gagagag 127

<210> 745
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n=A,T,C or G

<400> 745
 gatatcccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
 ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120
 acttcctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggccca gaatgccctg 180
 gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240
 tggaggctcc cagcacaggc cgcgcgccca gtcacatcac tgctgatggg ggggggactt 300
 ggggagtttc ccccgagaat gggaggtctc acagtccccg tgctgcaatg ctgtcgggtg 360
 actgngncng caatgtgctc atggncaactt gctttttctc tgtggccccg gccgatttat 420
 ccagcanngc acccctcttc tncctctccg anaaagcc 458

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccgggtc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60
 gaccccgta tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
 canngaaagt cctgccgact tcctggggaa gcccatccgc acgtggggtg aggggtccca 180
 natggaagca gctgtgtatg caggaggggg gcagaggctg ctgccaatgg gcatgtccct 240
 tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300
 ggccagaggc gctcagctca ggccacacca ggcaggggac ctcccaacct ggacagggtg 360
 ggaccaaggc ggccttggac aaaactctct gtgtttgcc agcacccaat cggacacaga 420
 gagtcaacca caccacagtc acatggtgtc cacacngcag gggtaagga ggcccggccc 480
 ctccccctca gacgtccctg ggcctctggg agtcagcaag gacgaggacg gcattgccct 540

```

tcgagacagg aagggagtga cctcctcccc gcggcaccca ggctcngctt ctccggagag 600
gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aaggtgacca 660
tgagcacctt gcaaacacag tgcacccacc agcatttnag caccnngggac tgtgaagacc 720
tcccatttct tcggggggaa acncgcccac ngttcccccc accntcacta gtgnattgtg 780
acctgggggn cggggccgacc cctgtngctt gggnnagccc tccncccagg tttctnnggc 840
ngcccnttaa nggnccctng nttggccctt tggccnctt tncgcttttc cca 893

```

```

<210> 747
<211> 738
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(738)
<223> n=A,T,C or G

```

```

<400> 747
gatatccccg gaattcgcg cgcgctcnac gaagcacaga cctgngccct gctctcatgg 60
ggcagactgc catttgtcat tnattactga aggaaaggga tcctcagttt gcttgtggac 120
atattcaaatt tgaggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240
aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagngac 300
agaagcanaa ggaggggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
ttatgngtgc catgcagtcc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
tanaaatttg gatacttact gatcctacat atgtaacagg gagagaagg 480
gcantaaatt gaaaaattgt tcacaatttc atttttttaa aaaagggagc taacagaaga 540
agagggttaat gtggtaatta taggatgnct cttagcgacac atgaatgnat ctggtatcat 600
ctgagtggga ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccngnactta 660
ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
tttggneccc gcaaaaagc 738

```

```

<210> 748
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 748
ctntgtggcg gtggctgtct catttgggtg gacttttttg gtcgtaggaa cctggatatng 60
aggctcgagag taagacgggc tattagtagt cgcacggag ttatttgtga aaacctgggt 120
agggcctctg tctccgctgc gctcgcctaa attggtatgg ctcgacttgg aaacacgggt 180
ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtcg ctccctcccg tatcgttcac ggagcgata ttactcttc ttactacgg 300
tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaagg caatcggcg aaatatagag gcaccaataa 420
tagggcctac agaaggcccg agggttagac tcacgtttaa taccggccac gggagaaata 480
aaaagataaa gtatacatcg tttagcggtc ctcggaagcc ttcggcttta atgccaaagg 540
gtcggaagca tcgtcggcga gtaataaact ccatcgcgcc gagactatct acgacgcct 600
ccttaanata cgtaaattac tcccggaaag agtatttagg cggtctct 647

```


<210> 749
 <211> 642
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(642)
 <223> n=A,T,C or G

```
<400> 749
ctntgtggcg gtggntgtct catttgggtg gacttttttg gtcgtaggaa cctgggatgc 60
aggctccgcg agcgtgggct ctcgctcggt atgttggggg ttggtgtggt gccggttggt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcggt cgtgtcctgc ttgtggtttg 180
gtgttttagg cgggtgggga ggttgtttgt tagctgttgt atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg tggttggtac ccgcctgtg tggaagtgtt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttggtt ttacgttgct 360
gcttttgcg tgggcgggtg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tactttctagt aaatggggac ctagtgtttg acttcccgga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc cacgacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggatagga aacaagagaa ctaattttng ttaaaaagac tt 642
```

<210> 750
 <211> 639
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(639)
 <223> n=A,T,C or G

```
<400> 750
tttgtggcgg ttggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattgggtc cgacgagcgt cacgataaat tcggtagttt cgcccttttt 120
agaaggcgct agtactcgga acttcacttc atctcggtag ttacttttg cgtatatagc 180
cttctccctc gaagactagc cgtcacattc gttccctagg aatcgtttct gccctaaga 240
atccgagagc gagatcccga aactagagga accttagaag agtcgtattt ccacaaggac 300
cccacagtca ttcogggaaa atccctagga ccatacggtt aggattcccc cggaaccccg 360
agcaaagctc atgattttcc acaccgagag agcgcctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagecgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcataga cggtgtccg 639
```

<210> 751
 <211> 637
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

```
cttttgtggc ggnggtgtct catttgggtg gatTTTTTggg tcgtaggnaa cctggtatng 60
aggcagctct gagccccccc ccccccccc cccccnccc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtgngtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg cttcgtcggg anaaatcggg aagganaagt cttnttggca tcataanaat 240
actggctcgg gtcctaanat ntttaaggng gtncgcgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctncgcgngc ggngattnan 360
acgaanacgt agaggattnc cgn tacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cncgcatatt cgctttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttgggt ctcgagnaana aaagcgtgtc 540
cta atgcgtc taaggnttta agnccgttgg tttaaaaata nccttagaaa cctcgaggcg 600
gatactggtt tntttttaac gaaacaaagc accccnn 637
```

<210> 752

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(644)

<223> n=A,T,C or G

<400> 752

```
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttgggtgtgc ctgtcgttcg gtggttccct tttgagttga gtttgcctt 120
tgaggttggt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtgggtggtta cgggtgtattg tcgcccggtg tcgcgggggtt ggggtggtcg tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgt gcgggttttg gtgagtagtt tcgttcttgg 300
atgtcccatg gaccgcgcat aatctaagta aggttagta gaaacctctc cccgatagac 360
acaaccgtcg tccactaaaag acctcgcttc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcggagga ggaagcggcg gtggcgga 540
atgaggcggg aagaaagacg acctctatcg gcggcttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcgatc gtcc 644
```

<210> 753

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(635)

<223> n=A,T,C or G

<400> 753

```
ctttgtggcg gtgggtgtca tttgggtgga ttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gcccaacca aagtccaccg 120
actaccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
```

```

aagtaacggt cctcttttcgg agctcttttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgtcga tacgggctct caccgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttccgtag accgggtcct aaatcgtccg 420
gagtattngg agagggatcc ttcggaccct agggacagag agaggagaac ggaggttaca 480
ggaggagaac gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgataggggt 540
cctagggtcg gngaatttac ggttcgaaaa acggtagtnc ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc ttntg 635

```

```

<210> 754
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 754
accgгатng ttncgtgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt ccccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctont gannaatttn tcaccctga 660
ataggggatt cntangccc tgagaatttc nttatcanaa aaatatattt ttaaagcatt 720
a 721

```

```

<210> 755
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 755
accgгатng ttncgtgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagttc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt ccccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ccttttttct tcccantgca tacttttttn tttccctttt 600

```

```

ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcacccctga 660
ataggggatt cntangccc tgagaatttc nttatcanaa aaatatattt ttaaagcatt 720
a                                                                    721

```

```

<210> 756
<211> 873
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(873)
<223> n=A,T,C or G

```

```

<400> 756
ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctgggc tgagtagagg 180
ttccctaggc aggcaagaga gagactccca ctcgatactc ccagctcggc aactgcctga 240
atgccaatga gcactcatta taaccgcgcc tattttatag gatttaattt tacacttcag 300
gcttaatcag tctgaaagtt aaactgacag tgttaagtta cggaatcaat gacatttagg 360
ctttatgact ttgtagctga atatctatgg gctatatctc cattctaaca gtgatatact 420
gttccagaat ctcatctctt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
ctgatgccaa cgaanaaccc aaagegctct cccttccaga tggaaagctgc cccacactgg 660
gctgacagca tctggagctg ctctggetca aatcccgaa tcgcacanct cctancgggg 720
gcgtttanag atcctcnggg ccagctaccg accacttttg acaagggnc ttaggagcgat 780
aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
atggcncccc caaataantt gggaaaantn ggg                                                                    873

```

```

<210> 757
<211> 782
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(782)
<223> n=A,T,C or G

```

```

<400> 757
ggccctctga gggatactct agagcggccg ccgactagtg agctcgtcga cgatatcccg 60
ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcaggtgcc catacctagg 180
gcagctgtgg aagtgtcagc gtctcctctg agaggaaact ctgctccggg ggctcctcag 240
tccttccgct agtatgctgt aaagcaccga catggtaatg ggtgnggact ggtaccatga 300
ctgntccctt aaaaggtggc cttcccnnaa aaaggagaat tcttggacna gggatttcac 360
ttgnttagaa atgggaaaaa ttaccatta gaattttcgn ttccaaggcn tnaagnccca 420
aaaggccttt gattcccgaa ccttaaccct gggcagttaa cctttcaaac gggataaacc 480
ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
tcaggcantt gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
aacctttact taaacnaacc cttgnccccc catttggggt tgactttcan cctaattgct 660
gaaaggaccg ggccgntttt gntttccttt gncccaaagg naaanaaacg ggtgccantt 720

```

```

cccangggat tanttcccgaaatttggnn aatttttntt tgnaactttt tgggtttttt 780
cc                                                                782

```

```

<210> 758
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

```

<400> 758
ntttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
gggaagagcg ccgtcgggtcc gaggtagta tagtcttcgc gccttctcgg 120
gcgcgggggc tattctctcc aaaggcagag gtccctagtc gacctcgtc ccctagggtta 180
ggaacagccg tcgaatatatt taggttcgtc gaggttttct tccgagctct acgcctaagt 240
agctccgcga gcaaagtatc ggatcttttc cctatccat cactccccta agtacgcctc 300
attattccgg aaggcaagag gccagcattc ctcttagag tagagggtag gtacctccgt 360
cgcggtgccg gaaagggcag agcttcgtgt ctccctccg cagcagctta acggtctacg 420
taggcgttct cgatcttttc acgggaatcg gggtcgggga gggcggcgga aaacgtcgac 480
gtctcgggtca ccgtcaccgc cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540
ccgcacccct cattagcgtc tacgaaatcg gggangtgat tgcgccatt cgtagacctt 600
cgataattat tctctattag cggtcctatc tcgcgcttcc gatttat 647

```

```

<210> 759
<211> 657
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(657)
<223> n=A,T,C or G

```

```

<400> 759
ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
gggctctata gaaagcctct tgtctttaga tacgggcttt ctgggtcctc gttctggaag 120
tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
gcttattcta tagttccttc gggacataag gtcggtacga tctatactgc gtgggaagct 240
gataggttgg gacttaagga gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300
atattattta cggcggcgcg gggtagccgc ggtcatgcgg aaattttctg aggttcttgg 360
attcctaaga tcgctcccgt cgagtatact agcgacgaac gtaagagtgc cctcacaaga 420
accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480
cgtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg tttagctact 540
ttgcgctacc gtttatattt agacgtgttc cgtccttctc cgtgtttana aaaaagggtt 600
attccgacgg gagacttagg cgaatggagg gttccgcggg tganaatcgg ancgggg 657

```

```

<210> 760
<211> 644
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> (1)...(644)
 <223> n=A,T,C or G

<400> 760
 ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatgna 60
 ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
 tacggacgtc gttaaccccc agtagcccc gtaagaaagg actaaagcga atggaaaagt 180
 cgggaattcc ggcggagggg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240
 acttgaggcg ttccctctta aaaggcaccg gaaacactct attaaaaaac acccgaagaa 300
 gaacaactca tgcgatcggc cgtgtgcagc cgtcaatagt aaagagagcc atgaaccatg 360
 ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
 tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaaacggc ggcccacttc 480
 cgcactctcg tagcgcgagc cgaatagaaa accggaaaact acagctaaa ggtcctttcc 540
 ggctgttat ctaccacccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
 ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

<210> 761
 <211> 647
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n=A,T,C or G

<400> 761
 ctttgtggcg gtggtgtctc atttgggtgg acttttttggg tcgtaggaac ctggtatnga 60
 ggcggttact ctctgggata atcggataaa gtgttgtaaa attgggggta agagaaagt 120
 tcattataag aagtggaagc acgagccggg gtgttttagtc gttaatatta agaccggtt 180
 ttgttgtagt tatatagctt gcgcgtggg aggcaataag aaacattgcg ttctgaggcc 240
 ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcatc tgcaaaataa ggactactga 300
 cgccgctcat aacgtactca acaatgagtc ggctgcatt aagatttcg cgaagaaccg 360
 tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
 ttcggtttgt aagaaggag ttaagtcgat cttcgaggaa gaagagaccc caaataaaaa 480
 atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgtta aaactagtag 540
 ctcttcggan gagtagcctt agtagggtaa gtcctccgtg cgtactgtcc taagggttgg 600
 atagcgcggt tgaatagacg gtcacgcgtc agaaggtaaa aanccgg 647

<210> 762
 <211> 628
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(628)
 <223> n=A,T,C or G

<400> 762
 cattgtgttg gggtcactga gcccactttt ttccagattt tttgtaaaat tgtttcgc 60
 tgtgttccct ttattcgtt gtattaatat ttgcgtagt gattaacaa atacttggtg 120

```

ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata tttctagcta attaggaaag tcattttttca gttagggttg tgttttgggt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgcggg gttaaatagaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgctct tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggg 480
taggaagaaa catgctggac agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
cattctaaact tggaaacttg ccatttccag gactttgngg ttcanagatt tttggggata 600
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```

```

<210> 763
<211> 147
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(147)
<223> n=A,T,C or G

```

```

<400> 763
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gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttcnggc 147

```

```

<210> 764
<211> 146
<212> DNA
<213> Homo sapiens

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```

<220>
<221> misc_feature
<222> (1)...(146)
<223> n=A,T,C or G

```

```

<400> 764
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agagttaggg ggactgttag aacagagaaa ganatcatgg gggtggggtt gagtctgatg 120
nnnaactggg gccgnntgct cagtat 146

```

```

<210> 765
<211> 129
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(129)
<223> n=A,T,C or G

```

```

<400> 765
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ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgctggctg 120
nagaggcgg 129

```

<210> 766
 <211> 175
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(175)
 <223> n=A,T,C or G

<400> 766
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 tctggggctt ggnnttttctc ctttgtanaa tgatgccttt ctgtgggttt gtcatttcta 120
 acattctgtg ngtgatgagg tgtatattcg angantcta tcnccanagt actct 175

<210> 767
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(602)
 <223> n=A,T,C or G

<400> 767
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 cctggtttgt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120
 ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtccat 180
 aatgagtgag agtacaaagt tcaagccctg ttgaggggtc gcattaaact ctcagaagta 240
 tttagagtggt gccaggagcc gcgaagggtc gggtcgggtg gtggcgggaa ctgtattaga 300
 gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cgttgggtgt 360
 gagctccagt actcagaaaa gcatctcagc aggtactcaa cagatcctca ggggcttggg 420
 ggcccagcac tggcagtgag ggcatgaaag acataaaagg gcactacctg tgggtatttt 480
 ctgtttctcca aggaggaagt agcaaaaatt aggacgtggt aatatactat gttgtagcaa 540
 tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaattct 600
 ta 602

<210> 768
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(671)
 <223> n=A,T,C or G

<400> 768
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 tcgcggnccg cgtcgacaaa aatactgcta aagtaatat tttatagatg actatttgcc 120
 ttggggccag gaaaagcagc tggagttatt cacttagtac cattttttaca tactaacttt 180
 gcctttttcca tgcttgcttg atgoggcttg cagcactgaa gaacagtttc aattgctagc 240


```

caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaac aggttttagg 300
taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanac ttctgcctat 360
tatgcagact gggcggtctt aaanntggta aaactatnaa ataccatac aatattttta 420
nggggccccn ttatnaagct tttcaggcct tcccctttcc atagcattgg tgggatacaa 480
gaaaccttta aacagcaacn agctatcnag gcccaaaaag aaagtaattn tgatttttta 540
nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600
cttattaaac nttttttttt ttttaatttta ccccatggtc ntgatnttng ngcttccgcc 660
canaaaatng n 671

```

```

<210> 769
<211> 877
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(877)
<223> n=A,T,C or G

```

```

<400> 769
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ngggggaatt cgcggtcgcg tcgaccteta tacctttgnt catgcagctt cctctgactg 120
ggtttgttct tcaactgggt aacccctctt ttacttaagc acaccttgaa cattccctcc 180
ttccccatth cccgcagng cccctaattg acatacttct gaataacaca ggtggtattc 240
cttcttgggt ggaacctcct ggaggaagag acagatgatt aacaaatcct tccatcaacc 300
cctttgacca tgacatcaac agtgctccaa attatgggtt accgtattag cctatgtcta 360
tcttgatcag aatccttacc tcggtgtatt gaaattatct atttcgtgcc tgcctcttta 420
aagtcagggt ttgccttata tattgtctaa caccatgcag taggtaacat gcagtaggaa 480
acatggcatt aaattattht ggttcaaata ccagttatgg tgtgtaaata cctaccaggc 540
cgtgaggcac ctgctaagca ggttgacgcg atcatttgaa ttcacaccac ccttttgcaa 600
tagaacagat aggcaacaga ggctcatttg ggctaaaagg tttgatggag gggaagtgcc 660
aggattccca ccaaggcctc anggccagg tccanggacc atgtctgttg tgacaactgg 720
agtgcatttc atatccctn ctctgngggg naagggtccct cncgnggaga acnnttaaaa 780
caatcatntc tnggggntt aatgcttctt nccccagtgt ggtncactgc ngccacgagt 840
cccancact agtcccangt ctgtcatgaa ccancccc 877

```

```

<210> 770
<211> 874
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(874)
<223> n=A,T,C or G

```

```

<400> 770
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gaattcgcg cgcggtcgac cttttcaaaag gtttaacttat ttaattatca cannnngaac 120
ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg cttaaataaat 180
tgcccaatth cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240
atctgtaacc ctacagatgc cactactact tctttcagaa taccctttgc ctatctattc 300
tgttcctatg tcatcaaatt atacttactt taaaaagtat ttgtctttat tatttttaaa 360
aaaacacagg gaagtatttc tgatcagggg cagtattggg tctgaaagac aagccagtgt 420

```

```

ttttgagggg ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480
tgtagctatt acagaaccgc tttagcaaat gtgttccatt aatcaagggt atttataaca 540
aaatttcac ccaagtttgga gtgctctgaa aacatagcca aaatgttcgc aggggtctacc 600
cctctcgtgt gtcccttttt tttagctatt tcagaagcac actggtgcaa ttttttacga 660
aatgagtttc ttccccttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720
natgaanatc ctgctatttc atatcttgat tggagctgct taattaaatg accattttna 780
aatttgtttt gattccnngc aaaaaaagtt tnttnttga tgtagggggc tcnnaaagnc 840
caaaaccccc caaaattttt nnttggaac ccna 874

```

```

<210> 771
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(156)
<223> n=A,T,C or G

```

```

<400> 771
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gtgtgggtgga attcgcggcc gcgctgaccc cgagcggtcg cccttttttt ttttttttn 120
ngtttttttg aanaattcat tgggtattta ttattc 156

```

```

<210> 772
<211> 586
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(586)
<223> n=A,T,C or G

```

```

<400> 772
ncaanctggn ctccaccgcg gtggcgcccg ctctagacta gtggatccac tagtccagtg 60
tggtggaatt cgcggccgcg tcgatacaca agtgctcaca agtccngnat ttattttatc 120
tccagatatg aaacttaccc ccagctatgg tcttctatct gttatttaat ttctaggcca 180
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atcaacttac cctcaaatta tatcctcatt cagaaaaatct acatctatta atggtagcta 300
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aaacaaaatc ctgccttgna tggatactta tgnnatggng ggatacagac aatcaacata 480
atgangngca tcatatataa tggttagnan aatgataagg gnttttgga aaaaaatgca 540
ccanccaan anggattggg aagtggangg ganggtcang ggangg 586

```

```

<210> 773
<211> 2983
<212> DNA
<213> Homo sapiens

```

```

<400> 773
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```

```

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```

<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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attc

```

<400> 775

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Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu
35 40 45

Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
50 55 60

Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
65 70 75 80

Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
85 90 95

Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
100 105 110

Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
115 120 125

Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
130 135 140

Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
145 150 155 160

Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys
165 170 175

Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
180 185 190

Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp
195 200 205

Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys
210 215 220

Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly
225 230 235 240

Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr
245 250 255

Tyr Asn Thr Lys Gln Ala Val Cys Phe Gly Gln Cys Trp Val Phe Ala
 260 265 270
 Gly Ile Leu Thr Thr Val Leu Arg Ala Leu Gly Ile Pro Ala Arg Ser
 275 280 285
 Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val
 290 295 300
 Asp Thr Tyr Val Asn Glu Asn Gly Lys Lys Ile Thr Ser Met Thr His
 305 310 315 320
 Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg
 325 330 335
 Pro Asp Leu Pro Lys Gly Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr
 340 345 350
 Pro Gln Glu Arg Ser Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu
 355 360 365
 Thr Ala Ile Arg Lys Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe
 370 375 380
 Val Phe Ser Glu Val Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met
 385 390 395 400
 Val Asn Gly Gln Glu Glu Leu His Val Ile Ser Met Glu Thr Thr Ser
 405 410 415
 Ile Gly Lys Asn Ile Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg
 420 425 430
 Asp Ile Thr Tyr Glu Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg
 435 440 445
 Gln Val Met Asp His Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His
 450 455 460
 Arg Arg Pro Val Lys Glu Asn Phe Leu His Met Ser Val Gln Ser Asp
 465 470 475 480
 Asp Val Leu Leu Gly Asn Ser Val Asn Phe Thr Val Ile Leu Lys Arg
 485 490 495
 Lys Thr Ala Ala Leu Gln Asn Val Asn Ile Leu Gly Ser Phe Glu Leu
 500 505 510
 Gln Leu Tyr Thr Gly Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys
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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
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<211> 1095

<212> PRT

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Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
          35                      40                      45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
          50                      55                      60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
          65                      70                      75                      80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
          85                      90                      95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
          100                     105                     110

Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
          115                     120                     125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
          130                     135                     140

Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
          145                     150                     155                     160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
          165                     170                     175

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Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
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 Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
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 Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
 210 215 220
 Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
 225 230 235 240
 Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
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 Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
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 Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly
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 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val
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 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val
 325 330 335
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 370 375 380
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 385 390 395 400
 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
 405 410 415
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu
 420 425 430
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp
 435 440 445
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe
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Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr
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 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val
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 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu
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 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys
 515 520 525
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
 530 535 540
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
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 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
 580 585 590
 Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
 595 600 605
 Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
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 Trp Tyr Gly Glu Ile Ser Arg Asp Thr Lys Asn Trp Lys Ile Ile Leu
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 Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg
 690 695 700
 Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala
 705 710 715 720
 Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr
 725 730 735
 Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His
 740 745 750

Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val
 755 760 765
 Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly Val Asn Tyr
 770 775 780
 Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe
 785 790 795 800
 Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu
 805 810 815
 Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu
 820 825 830
 Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile
 835 840 845
 Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu
 850 855 860
 Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu
 865 870 875 880
 Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr
 885 890 895
 Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly
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 Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys
 915 920 925
 Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu
 930 935 940
 Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile
 945 950 955 960
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 965 970 975
 Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu
 980 985 990
 Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val
 995 1000 1005
 Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys
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Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val
 1045 1050 1055

Lys Ile Asn Thr Lys Ala Asn Asp Thr Ser Glu Glu Met Arg His Arg
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Glu Ile Ala Asn Lys Ile Lys
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Ser

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cagatcgcca agaattccta taatgatgcc ctccctacgt ttgtctggaa actggttgcg 1560

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<212> PRT

<213> Homo sapiens

<400> 818

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Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
              20              25              30

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Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
              35              40              45

```

```

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
              50              55              60

```

```

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
              65              70              75              80

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Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
              85              90              95

```

```

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
              100              105              110

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```

Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
              115              120              125

```

```

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
              130              135              140

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Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
              145              150              155              160

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```

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
              165              170              175

```

```

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
              180              185              190

```

```

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
              195              200              205

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Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu

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210	215	220
Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro		
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Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn		
	245	250 255
Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu		
	260	265 270
Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly		
	275	280 285
Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu		
	290	295 300
Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val		
305	310	315 320
Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val		
	325	330 335
Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe		
	340	345 350
Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp		
	355	360 365
Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val		
	370	375 380
Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser		
385	390	395 400
Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn		
	405	410 415
Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu		
	420	425 430
Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp		
	435	440 445
Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe		
	450	455 460
Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr		
465	470	475 480
His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val		
	485	490 495
Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu		

500					505					510					
Thr	Phe	Val	Trp	Lys	Leu	Val	Ala	Asn	Phe	Arg	Arg	Gly	Phe	Arg	Lys
	515						520					525			
Glu	Asp	Arg	Asn	Gly	Arg	Asp	Glu	Met	Asp	Ile	Glu	Leu	His	Asp	Val
	530					535					540				
Ser	Pro	Ile	Thr	Arg	His	Pro	Leu	Gln	Ala	Leu	Phe	Ile	Trp	Ala	Ile
	545					550					555				560
Leu	Gln	Asn	Lys	Lys	Glu	Leu	Ser	Lys	Val	Ile	Trp	Glu	Gln	Thr	Arg
				565					570					575	
Gly	Cys	Thr	Leu	Ala	Ala	Leu	Gly	Ala	Ser	Lys	Leu	Leu	Lys	Thr	Leu
			580					585					590		
Ala	Lys	Val	Lys	Asn	Asp	Ile	Asn	Ala	Ala	Gly	Glu	Ser	Glu	Glu	Leu
		595					600					605			
Ala	Asn	Glu	Tyr	Glu	Thr	Arg	Ala	Val	Glu	Leu	Phe	Thr	Glu	Cys	Tyr
	610					615					620				
Ser	Ser	Asp	Glu	Asp	Leu	Ala	Glu	Gln	Leu	Leu	Val	Tyr	Ser	Cys	Glu
	625					630					635				640
Ala	Trp	Gly	Gly	Leu	Glu	His	His	His	His	His	His	His			
				645					650						

<210> 819
 <211> 132
 <212> PRT
 <213> Homo sapien

<400> 819
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
 20 25 30
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
 35 40 45
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
 50 55 60
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
 65 70 75 80
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
 85 90 95
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
 100 105 110
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
 115 120 125

Gly Pro Pro Ala
130

<210> 820
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 820
ggggaattca tgatccggga gaaatttgcc cactgc 36

<210> 821
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 821
gggctcgagt caggagtttg agaccagcct ggc 33

<210> 822
<211> 675
<212> DNA
<213> Homo sapiens

<400> 822
atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaaagt gacattggcc gagggacccc cggccgaatt catgatccgg 420
gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540
ttgctgcaaa ataaagagag cctattttac aagatggtgc aacaactggg caaggcagaa 600
gccgctgcc tcactgaaac agcaaaacag agatggggtt tcaccatgtt ggccaggctg 660
gtctcaaact cctga 675

<210> 823
<211> 291
<212> DNA
<213> Homo sapiens

<400> 823

```

atggggatcc gggagaaatt tgccactgc accgtgctaa ccattgcaca cagattgaac 60
accattattg acagcgacaa gataatgggt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttgctgca aaataaagag agcctatgtt acaagatggg gcaacaactg 180
ggcaaggcag aagccgctgc cctcactgaa acagcaaaac agagatgggg tttcaccatg 240
ttggccaggc tgggtctcaaa ctccctcgag caccaccacc accaccactg a 291

```

<210> 824

<211> 1074

<212> DNA

<213> Homo sapiens

<400> 824

```

atgtcagcca ttgagagggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgctacttg atgagatatc acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgctttttgg gataaggcat cagagacccc aactctacaa 180
ggccttttct ttactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcac cactgttaag tgccgtgctc ggggaattgg cccaagtca cgggctggtc 300
agcgtgcacg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc gggaactctg 360
aggagtaata ttttatttgg gaagaaatac gaaaaggaaac gatatgaaaa agtcataaag 420
gcttgtgctc tgaaaaagga ttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgctgag tggagggcag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tgttcgaact gtgtatttgc caaattttgc atgagaagat cacaatttta 660
gtgactcatc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggg 720
aaaatggtgc agaaggggac ttacactgag ttccctaaaat ctggtataga ttttggtctc 780
cttttaaaga aggataatga ggaaagtga caacctccag ttccaggaac tcccacacta 840
aggaatcgta ccttctcaga gtcttcgggt tgggtctcaac aatcttctag accctccttg 900
aaagatgggt ctctggagag ccaagataca gagaatgtcc cagttacact atcagaggag 960
aaccgttctg aaggaaaagt tggttttcag gcctataaga attacttcag agctgggtgt 1020
cactggattg tcttcatttt cttattctc gagcaccacc accaccacca ctga 1074

```

<210> 825

<211> 224

<212> PRT

<213> Homo sapiens

<400> 825

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5                                10                        15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20                                25                        30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35                                40                        45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50                                55                        60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65                                70                        75                        80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr

```



```

<400> 826
Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg
          5                      10                      15

Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln
          20                      25                      30

Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala
          35                      40                      45

Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe
          50                      55                      60

Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala
          65                      70                      75                      80

Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser
          85                      90                      95

```

His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln
 100 105 110
 Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys
 115 120 125
 Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu
 130 135 140
 Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly
 145 150 155 160
 Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu
 165 170 175
 Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro
 180 185 190
 Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys
 195 200 205
 Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln
 210 215 220
 Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly
 225 230 235 240
 Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile
 245 250 255
 Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro
 260 265 270
 Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser
 275 280 285
 Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala
 290 295 300
 Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu
 305 310 315 320
 Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe
 325 330 335
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His
 340 345 350
 His His His His His
 355

<210> 827

<211> 96

<212> PRT
 <213> Homo sapiens

<400> 827
 Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
 5 10 15
 His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp
 20 25 30
 Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn
 35 40 45
 Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu
 50 55 60
 Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met
 65 70 75 80
 Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
 85 90 95

<210> 828
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 828
 cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 829
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 829
 cgcctcgagg gagtttgaga ccagcctggc caaca 35

<210> 830
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 830
gcatggacca tatgtcagcc attgagaggg tgtcagag 38

<210> 831
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 831
ccgctcgaga ataaggaaaa tgaagacaat ccag 34

<210> 832
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 832
gttgaattca tgcacggggcc ccagggtg 27

<210> 833
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 833
cccctcgagt cactatggtc tgcctottga 30

<210> 834
<211> 915
<212> DNA
<213> Homo sapiens

<400> 834
atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgcttctctc ggcttggttg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420
ccccagggtgc tggcacgctg ctccgagtggt gcttgctctg ccttggtctg cacctctgcg 480

```

ggggtgcgtc tggagggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
gcgagtgagg ttggtggctg tgcccccagc tcctggcgcg ccctcgcaga ggtgactggg 720
tgctcttttg gccctcttgg ccttgcccag catgcacaag cctcagtgtc actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaagggt gtatgctgcc 840
tttgggggct ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag 915

```

<210> 835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 835

```

Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5              10              15

```

```

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20              25              30

```

```

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35              40              45

```

```

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50              55              60

```

```

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65              70              75              80

```

```

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85              90              95

```

```

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100             105             110

```

```

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115             120             125

```

```

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu
      130             135             140

```

```

Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala
      145             150             155             160

```

```

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln
      165             170             175

```

```

Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met
      180             185             190

```

```

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr
      195             200             205

```

Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val
 210 215 220

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly
 225 230 235 240

Cys Ser Leu Gly Pro Leu Gly Leu Ala Gln His Ala Gln Ala Ser Val
 245 250 255

Leu Leu Leu Cys Tyr Lys Trp Ser His Ile Gly Glu Thr Ser Ser His
 260 265 270

Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu
 275 280 285

Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro
 290 295 300